

## Electronic Transmittal Form for DEEP Remediation and LUST Secure File Transfer (SFT)

DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION REMEDIATION DIVISION LEAKING UNDERGROUND STORAGE TANK COORDINATION PROGRAM

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This Electronic Transmittal Form must be completed and included as the cover sheet of your electronic document when uploading a document to the Connecticut SFT website. Requirements for Transmittals through the SFT website:

- Only document types identified in the dropdown lists in Part III below may be submitted through the SFT website.
- Documents submitted through the SFT website must include all applicable figures, tables and laboratory data.
- Files must be formatted as PDF/A and use the appropriate naming convention:
  - For Remediation Filings: REM\_RemID\_DocumentType\_DateofDocument Example: REM\_1234\_MonitoringReport\_01-01-2001
  - For LUST Filings: LUST\_SiteAddress\_Town\_AbbreviationForDocumentType\_DateofDocument Example: LUST\_1MainStreet\_Hartford\_ESA\_01-01-2001

Note: For "AbbreviationForDocumentType" use appropriate abbreviation at Transmittal of Documents

#### Part I: Primary Recipient\*: Remediation Program (\* required)

For Remediation documents: For LUST documents: Primary Program\*: Significant Environmental Hazard **UST Facility ID:** Rem ID\*: NA Spill Case Number:

#### Part II: Site Information

Site Name\*: Mill Hill Elementary School

Site Address\*: 635 Mill Hill Terrace

State: CT Citv/Town\*: Fairfield Zip Code: 06890

Secondary Programs (complete as many as applicable for this document):

Program: Select Secondary Program Project ID: Program: Select Secondary Program Project ID: Program: Select Secondary Program Project ID: Program: Select Secondary Program Project ID:

Provide Project ID for each secondary program if it is known.

Each program has a unique ID (i.e. Rem ID, Spill Case #, UST Facility ID, etc.)

#### Part III: Document Information (document type required for appropriate program[s] only)

Remediation\*: Remedial Action Report (RAR)

LUST\*: LUST Document Type

Date of Document\*: 12/29/2021 Version: Final

#### Part IV: Submitter Information

Name\*: James T. Olsen, PG, LEP

E-mail\*: JTOlsen@tighebond.com

Name of company/business this document is being submitted on behalf of: \*

Town of Fairfield

**DEEP-ETF** 1 of 1 Rev.08-26-21



Mill Hill Elementary School 635 Mill Hill Terrace, Southport (Fairfield), CT

# Significant Environmental Hazard Abatement Report

Town of Fairfield

December 2021







F-0439-031 December 29, 2021

Jan Czeczotka
Director
Remediation Division
Bureau of Water Protection and Land Reuse
CT Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106

Re: Significant Environmental Hazard Abatement Report Mill Hill Elementary School ADA Sidewalk 635 Mill Hill Terrace, Southport (Fairfield), CT

Dear Mr. Czeczotka:

On behalf of the Town of Fairfield, Tighe & Bond, Inc. has completed excavation observation and soil sampling activities associated with the removal of approximately 856 tons of soil at the Mill Hill Elementary School located at 635 Mill Hill Terrace in Southport (Fairfield), CT (Site). Concentrations of certain polycyclic aromatic hydrocarbons (PAHs) above the Significant Environmental Hazard (SEH) notification threshold were identified at two separate locations at the Site in August 2019.

In accordance with Connecticut General Statutes (CGS) Section 22a-6u, if soil is not remediated within 90 days from the receipt of the laboratory report identifying an SEH condition, then notification to the Connecticut Department of Energy and Environmental Protection (CTDEEP) is required. A written notification of the SEH was submitted to the CTDEEP on April 28, 2020. At that time, a Remedial Action Plan (RAP) was also submitted that detailed the remedial activities proposed at the Site, which included the removal of the SEHs. The RAP was approved by the CTDEEP in the "Acknowledgement of Notification of Significant Environmental Hazard" letter dated June 5, 2020. Remedial activities were completed in June/July 2021. By way of this report, the Town is requesting a Certificate of Completion in accordance with Section 22a-6u(k).

Figure 1 (Appendix A) provides a site location map showing the site location. Figure 2 provides a site plan showing the excavation area.

#### Background

Tighe & Bond conducted sampling of the surface soils at the Site in August, September, December 2020 and April 2021 to evaluate the presence of "Julian Fill" as part of a Town investigation of potential "Julian Fill" placement locations and CTDEEP Consent Order 2020002DEEP that was issued to the Town of Fairfield on October 26, 2020. Julian Fill was reportedly used in connection with the June 2015 construction of the Americans with Disabilities Act (ADA) compliant sidewalk that connects the Mill Hill Elementary School building to the lower playground. Tighe & Bond collected 118 shallow soil samples from the vicinity of the ADA sidewalk and three shallow soil samples from the adjacent playground. Samples collected from the playground are outside of the Julian Fill area and not part of the Julian Fill investigation. The samples were sent to and analyzed by Phoenix Environmental Laboratories, Inc (Phoenix) of Manchester, CT for the following compounds:

- Asbestos,
- Arsenic and lead,
- Extractable total petroleum hydrocarbons (ETPH),

- Polychlorinated biphenyls (PCBs),
- Total and Synthetic precipitation leachate procedure (SPLP) PAHs, and
- Total and SPLP Pesticides.

The results from these samples identified the presence of certain PAH compounds in surface soils at concentrations exceeding the CTDEEP Remediation Standard Regulations (RSRs). In addition, two samples collected within two feet of the ground surface were reported to contain certain PAHs at concentrations above the SEH notification threshold of 15 times the Residential Direct Exposure Criteria (RES DEC) as defined in CGS Section 22a-6u as "Surface Soil Contamination". PAHs, specifically, benzo(a)anthracene, benzo(a)pyrene, and/or benzo(b)fluoranthene, were detected above the SEH notification threshold in soil samples MH-1 (0.5-1') and MH-2 (1-1.5').

The samples with the SEH notification threshold exceedances were analyzed as part of the December 11, 2019 sampling event where a total of 10 soil samples were collected to delineate PAH impacts that were previously identified in soil samples MILL HILL S1 (0-0.5') and MILL HILL S2 (0-0.5'), which were collected to assess Julian Fill material that was used during the construction of the ADA sidewalk. Sampling locations are shown on Figures 3 and 4. Summary tables for the soil data collected at the Site are included as Tables 1 and 2 in Appendix B. Laboratory data is included as Appendix D.

As the SEH conditions were identified within the Julian Fill material, which appeared to be limited to the immediate vicinity of the ADA sidewalk and proposed for removal, no further delineation sampling was required to be completed. Post-excavation confirmatory sampling was used to determine the end points of the SEH exceedances.

As previously discussed, notification of the SEH conditions was submitted in April 2020 with a RAP that was approved by the CTDEEP in the June 5, 2020 acknowledgement letter. This was prior to the issuance of the Julian Fill Consent Order. Per the Consent Order, additional investigations were completed and the extent of the remediation area was redefined to include the entirety of the Julian Fill that was placed beneath the ADA sidewalk. The revised excavation plan used for this remediation is included as Figure 5.

#### **Excavation and Sampling Activities**

The SEH conditions were addressed as part of the overall Julian Fill remediation, which consisted of the excavation of the entire length of the ADA sidewalk where the Julian Fill was reportedly placed. On January 10, 2020, Tighe & Bond collected a composite waste characterization sample from the area proposed for excavation. The waste characterization sample was utilized by the excavation contractor, CISCO, LLC of New Haven, CT, to obtain approval at a soil disposal facility.

In June and July 2021, Tighe & Bond observed the excavation of the Julian Fill material as shown on Figure 6. The excavation ran approximately 270 feet along the length of the ADA sidewalk that connected the Mill Hill Elementary School building to the lower playground. The width of the excavation varied from approximately 10 feet to 30 feet along the sidewalk based on the extent of Julian Fill used to regrade the area at the time of the construction. Similarly, the depth of the excavation also varied from approximately one foot to four feet beneath the ground surface (bgs). Bedrock was encountered throughout the central portion of the excavation, as shown on Figure 6. The SEH exceedances were located at two discrete areas within the overall excavation, as shown on Figure 3. The excavated material consisted of a mixture of sand, silt, and asphalt fragments. Photographs of the excavation are attached as Appendix C.

Tighe & Bond conducted daily total particulate (dust) air monitoring utilizing two dust monitors placed adjacent to the excavations. The air was monitored in real time using TSI DUSTTRAK

8530 air monitoring instruments with Envizor telemetry units to determine dust levels. Dust levels above 5 mg/m³ were not recorded in either of the dust monitoring units. Minimal visible dust was observed when the excavator bucket was removing the existing ADA sidewalk; however, this dust was not observed leaving the excavation area.

The excavated soil was either direct loaded into trucks or temporarily stockpiled within the excavation prior to being loaded onto trucks. Most of the excavation work was completed between June 28 and July 2, 2021. Due to elevated PAH concentrations above RSR criteria (but below SEH notification thresholds), two rounds of supplemental excavation were performed on July 15, 2021 and July 20, 2021. A total of 856 tons of Julian Fill and affected soil (soil that comingled with the Julian Fill) were excavated and transported to the Clean Earth facility located in Plainville, CT, a CTDEEP-permitted soil recycling and treatment facility, CT DEEP 110021-CRW, 146-0042/146-0143. Waste disposal documentation is attached as Appendix E.

At the completion of excavation activities, Tighe & Bond collected a total of 38 soil samples from the sidewalls and bottom of the excavation along 20 foot transects. Sidewall samples were collected from depths ranging from 0.5 feet to two feet depending on the corresponding bottom depth. For above grade portions of the excavation (where Julian Fill was placed on top of existing grade), sidewalls were not present. With respect to the SEH exceedances, soil samples MHB-408 (3'), MHS-409 (1.5'), MHS-410 (1.5'), MHB-411 (3'), MHS-412 (1.5'), MHS-413 (1.5'), MHB-414 (2'), MHS-415 (0.5'), and MHS-416 (1') were collected from the MH-2 area and soil samples MHB-427 (3'), MHS-428 (0.5'), MHB-429 (1'), MHS-430 (0.5'), MHB-431 (0.5'), and MHS-432 (0.5') were collected from the MH-1 area. "MHS" samples represent sidewall samples and "MHB" samples represent bottom samples.

The post excavation soil samples were collected in laboratory-supplied containers and were placed into a cooler with ice for transport. Tighe & Bond maintained possession of the samples until the samples were picked up by the laboratory courier and brought to the laboratory. The laboratory received the samples on the same day of sample collection. A chain-of-custody form was generated by Tighe & Bond at the time of sample collection, and this form accompanied the samples to final delivery at the laboratory. Transfers in possession of the samples were fully documented on the Chain-of-Custody form which is included in the laboratory reports (Appendix D). All samples collected from the Julian Fill remediation project were analyzed for ETPH, arsenic, lead, pesticides, PCBs, and PAHs on a standard turn around. Select samples were additionally analyzed for lead, arsenic, pesticides, and PAHs by the Synthetic Precipitation Leaching Procedure (SPLP) based on initial results.

#### **Analytical Results**

As summarized in detail in Tighe & Bond's November 2021 Mill Hill Elementary School Remedial Action/Verification Report, a total of 38 soil samples were collected from the Julian Fill remediation area, which included the two SEH conditions. Of these samples, 36 were used as the endpoints (following supplemental excavation activities). PAHs were detected in 12 of the 36 soil samples used for the endpoints of the remedial area. Several individual PAHs were detected at concentrations above their respective RES DEC and GA Pollutant Mobility Criteria (PMC) in soil samples MHB 414 (2') and MHB 419 (1'). Further excavation of these sample locations was not possible due to the shallow bedrock in the area; however, the calculated 95% Upper Confidence Level (UCL) for the final post-excavation data demonstrates compliance with the RES DEC in accordance with the CTDEEP RSRs. The 95% UCL was calculated using EPA supported ProUCL software (version 5.1). The ProUCL output sheet is included as Appendix F. With respect to the GA PMC, SPLP analysis was completed on soil samples MHB 414 (2') and MHB 419 (1'), as well as an initial sample, MHS 422 (0.5'), that contained the highest detected concentrations of PAHs at the Site and was thus excavated.



Leachable PAHs were only detected in soil samples MHB 414 (2') and MHB 419 (1') at concentrations below optional GA PMC criteria (i.e., groundwater protection criteria).

ETPH and PCBs were not detected at concentrations above the laboratory reporting limits. Total DDT (pesticides) were detected in one sample (MHS 426) at concentrations below the RES DEC but not the GA Pollutant Mobility Criteria (GA PMC). However, SPLP analysis for pesticides was completed on this sample that did not identify concentrations above the laboratory reporting limits; as such, the data complies with the optional GA PMC (i.e., groundwater protection criteria). Arsenic and lead were detected at apparent naturally occurring concentrations below RSR criteria.

The two SEH conditions are located within the Julian Fill remediation area. Corresponding post-excavation endpoint samples that were collected include soil samples MHB-408 (3'), MHS-409 (1.5'), MHS-410 (1.5'), MHB-411 (3'), MHS-412 (1.5'), MHS-413 (1.5'), MHB-414 (2'), MHS-415 (0.5'), and MHS-416 (1') from the MH-2 area and soil samples MHB-427 (3'), MHS-428 (0.5'), MHB-429 (1'), MHS-430 (0.5'), MHB-431 (0.5'), and MHS-432 (0.5') from the MH-1 area. In line with the sample results discussed above, ETPH, PCBs, and pesticides were not detected at concentrations above the laboratory reporting limits in these specific samples. In addition, arsenic and lead were detected at apparent naturally occurring concentrations. PAHs were detected in a few of these samples, with concentrations several individual PAHs above the RES DEC and GA PMC in soil sample MHB 414 (2'). As previously discussed, compliance with the RSRs was achieved for this sample with the use of the calculated 95% UCL for the RES DEC and SPLP analysis indicating the PAHs do not leach at concentrations above the optional GA PMC.

Post excavation soil sample results are summarized in Table 3 in Appendix B. The laboratory analytical reports are contained in Appendix D.

#### **Summary**

In December 2019, sample results reported certain PAH concentrations above SEH notification thresholds in two shallow sample locations at the Site. The SEH exceedances were associated with the Julian Fill material that was reportedly placed beneath and in the vicinity of the ADA sidewalk that connected the Mill Hill Elementary School building to the lower playground. Notification of the SEH and RAP were submitted to the DEEP on April 28, 2020. The DEEP replied with a letter of acknowledgement and approval of the RAP on June 5, 2020.

In June and July 2021 remediation was completed at the Site to remove the Julian Fill material, which also contained the SEH exceedances. Tighe & Bond observed the excavation of impacted soil and collected a total of 38 post excavation soil samples. A total of 856 tons of Julian Fill and affected soil was excavated from the Site by CISCO and disposed at a permitted facility. Waste disposal manifests and documentation is provided in Appendix E.

Tighe & Bond collected a total of 38 post excavation soil samples from the sidewalls and bottoms of the overall Julian Fill excavation, which included the two SEH conditions. Samples were analyzed for COCs associated with the Julian Fill, which included PAHs. Of the 38 post excavation samples, 36 represent the excavation endpoints. COCs (PAHs) were either not detected at concentrations above the laboratory reporting limits (ETPH and PCBs), detected at concentrations below RSR criteria, or detected at concentrations above RSR criteria but comply using statistical analysis and SPLP testing. As such, the SEH condition has therefore been abated at the two locations.

The Town is requesting a Certificate of Completion from the DEEP in accordance with Section 22a-6u(k) in connection with the notification of SEH conditions submitted to the DEEP on April 28, 2020.

The Town has also submitted a Remedial Action/Verification to the DEEP Bureau of Water Protection and Land Reuse that discusses in detail the remediation of the Julian Fill material at Mill Hill Elementary School.

If you have any questions, please contact me at (860) 704-4761 or jtolsen@tighebond.com.

Very truly yours,

#### **TIGHE & BOND, INC.**

James T. Olsen, PG, LEP Vice President

#### **Attachments:**

Acknowledgement and Approval – Notification of Significant Environmental Hazard Appendix A

Figure 1- Site Location Map

Figure 2 – Site Plan

Figure 3 - Investigation Sampling Locations

Figure 4 - Non-Investigation Sampling Locations

Figure 5 - Pre-Remediation Soil Excavation Plan

Figure 6 - Final Excavation Limits and Endpoint Sample Locations

Appendix B - Tables

Table 1 – Summary of Soil Investigation Analytical Data

Table 2 – Summary of Non-Investigation Analytical Data

Table 3 - Summary of Remediation Sample Analytical Data

Appendix C - Photographic Log

Appendix D - Analytical Reports

Appendix E - Waste Disposal Documentation

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#### ACKNOWLEDGEMENT AND APPROVAL

# NOTIFICATION OF SIGNIFICANT ENVIRONMENTAL HAZARD PURSUANT TO CONNECTICUT GENERAL STATUTES SECTION 22a-6u

June 5, 2020

Mr. Brian Carey Conservation Director Town of Fairfield 725 Old Boston Post Road Fairfield, CT 06824

RE: Notification of Significant Environmental Hazard

Mill Hill Elementary School 635 Mill Hill Terrace, Fairfield

Dear Mr. Carey:

## Acknowledgement of Notification of Significant Environmental Hazard

This is to acknowledge receipt, on April 28, 2020 of written notification, under the requirements of Connecticut General Statutes (CGS) Section 22a-6u. This notification reported the presence of an environmental hazard at property owned by the Town of Fairfield known as Mill Hill Elementary School located at 635 Mill Hill Terrace in Fairfield. The notification, which identifies you as the contact person, was completed by James Olsen, Vice President of Tighe & Bond, Inc. The notification identified the following significant environmental hazard(s):

Soil within the uppermost two feet below the ground surface is polluted with benzo(a)pyrene at concentrations of 20 and 31 parts per million, exceeding the applicable notification criteria, and may pose a short-term risk of direct exposure.

Thank you for notifying the Department of Energy and Environmental Protection (the Department) of this condition which you believe is due to placement of polluted fill.

Except for environmental hazards identified under CGS 22a-6u Section (b)(1), (c)(1) or (h)(1), further notifications resulting from investigations or monitoring conducted in the course of mitigation or abatement of this hazard condition are not necessary, provided that the Department is promptly advised of sample results. However, in the event any future investigation or monitoring discloses a more widespread or severe problem or an increasing trend in pollution concentration, please do not hesitate to contact the staff member identified below.

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For your information, pursuant to the requirements of CGS Section 22a-6u (m), the Department must forward a copy of your written notification to the chief elected official of the municipality in which the site is located and to the Local Health Director. In addition, the Department sends a copy of this acknowledgement letter to these individuals. The Department must also, unless the hazard is abated or mitigated, add this site to the "List of Significant Environmental Hazards Reported to the DEEP" that is maintained on the Department's internet site. Also, be advised that CGS Section 22a-6u (l), requires that the Significant Environmental Hazard Notification Report be conspicuously posted at the site not later than five days after the commencement of an activity by any person that increases the likelihood of human exposure to known contaminants.

## Approval of Abatement Plan

The Remedial Action Plan (the RAP) describes actions taken to evaluate and mitigate the reported hazard including covering the soil with landscaping fabric and the installation of a temporary fence to limit access to the polluted soil until the site is remediated, and informing the public of the hazard condition. Additional soil samples were collected and analyzed to delineate the extent of the polluted soil. Excavation, removal, and disposal of the polluted soil, originally planned for March 2020, was delayed by the COVID-19 emergency response shutdown. The RAP will be implemented as soon as the COVID-19 conditions allow.

The aspects of the RAP that pertain to evaluation, mitigation, and abatement of the reported significant environmental hazard are hereby approved under the provisions of Section 22a 6u (k) of Connecticut's General Statutes (CGS).

The Department expects that as a result of this approval a supplemental report will be submitted **on or before August 31, 2020**. In the event the Department does not receive the expected report, it will reevaluate the potential short-term risk associated with this hazard condition. The continued presence of short-term risk associated with the hazard condition, if not mitigated, as reported, may cause the Department to initiate other actions.

Please note that this letter pertains **solely** to the identified significant environmental hazard condition. This letter does not establish either a basis for determination that your site is 'clean', a basis for submittal of a 'Form II' or 'Form IV' in the event this property is an establishment, or a basis for resolution of any prior Form III filing under the Property Transfer Program pursuant to CGS Section 22a-134 et. seq. The evaluation of a release area or property to determine if it is in compliance with Connecticut's Remediation Standard Regulations (RSRs) is a separate and distinct activity from identification and resolution of an environmental hazard condition, although the same data may be used for both as appropriate. Both of these activities, resolution of a significant environmental hazard and remediation of related pollution, are required, under separate laws. In any event, the Department expects you to continue implementing remedial activity to achieve closure of site issues.

This letter relates only to abatement of the significant environmental hazard identified above. Nothing in this letter shall affect the Commissioner's authority to institute any proceeding, or take any other action to prevent or abate pollution, to recover costs and natural resource damages, and

SEH#1144ACK Page 2 of 3

to impose penalties for violations of law including but not limited to violations of any permit issued by the Commissioner. No provision of this letter and no action or inaction by the Commissioner shall be construed to constitute an assurance by the Commissioner that the actions taken result in permanent abatement of the environmental hazard. If at any time the Commissioner determines that the information upon which the Commissioner's decision is based was incorrect, or the identified environmental hazard remains a risk, the Commissioner may institute any proceeding, or take any action to require further action to abate the hazard.

In addition, nothing in this letter shall relieve any person of his or her obligations under applicable federal, state, or local laws or regulations.

Please address all submittals pertaining to this significant environmental hazard to the Remediation Division, to the attention of the staff member identified herein. If you have any questions regarding your obligations specified in this letter, please contact Jade Barber by phone at 860-424-3341 or e-mail at jade.barber@ct.gov.

Sincerely,

Jan Czeczotka

Director

Remediation Division

Bureau of Water Protection and Land Reuse

JMC:KRF:ARK

c:

Mr. James Olsen, LEP, Vice President, Tighe & Bond, Inc., 213 Court Street, Middletown, CT 06457

As noted above, under the provisions of CGS Section 22a-6u (m) copies are also provided to the following:

The Honorable Brenda Kupchick, First Selectwoman, Town of Fairfield, Sullivan Independence Hall, 725 Old Post Road, Fairfield, CT 06824

Mr. Sands Cleary, Director of Health, Fairfield Health Department, 725 Old Post Road, Fairfield, CT 06824

e-copy (including a copy of the significant environmental hazard notification):

Jade Barber, Remediation Division, DEEP

Amanda Killeen, Remediation Division, DEEP

Peter Hill, Remediation Division, DEEP

SEH#1144ACK Page 3 of 3

**APPENDIX A** 

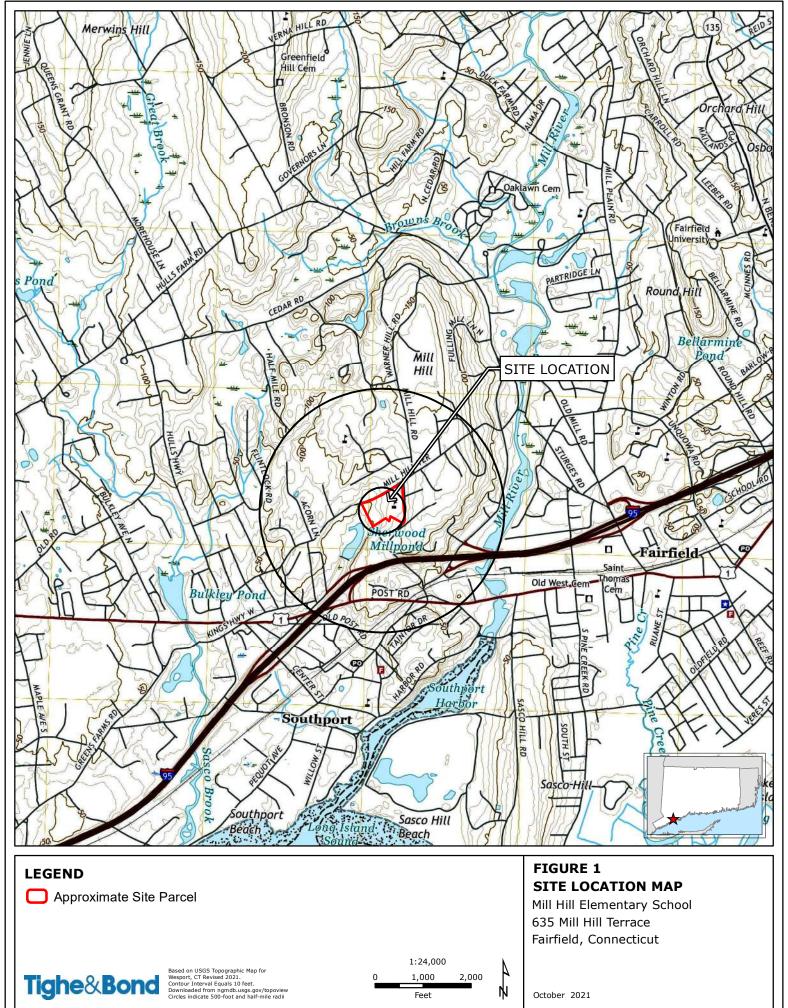




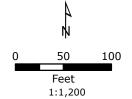
FIGURE 2 SITE PLAN

LEGEND

Approximate Site Parcel
Approximate Excavation Limit

LOCUS MAP





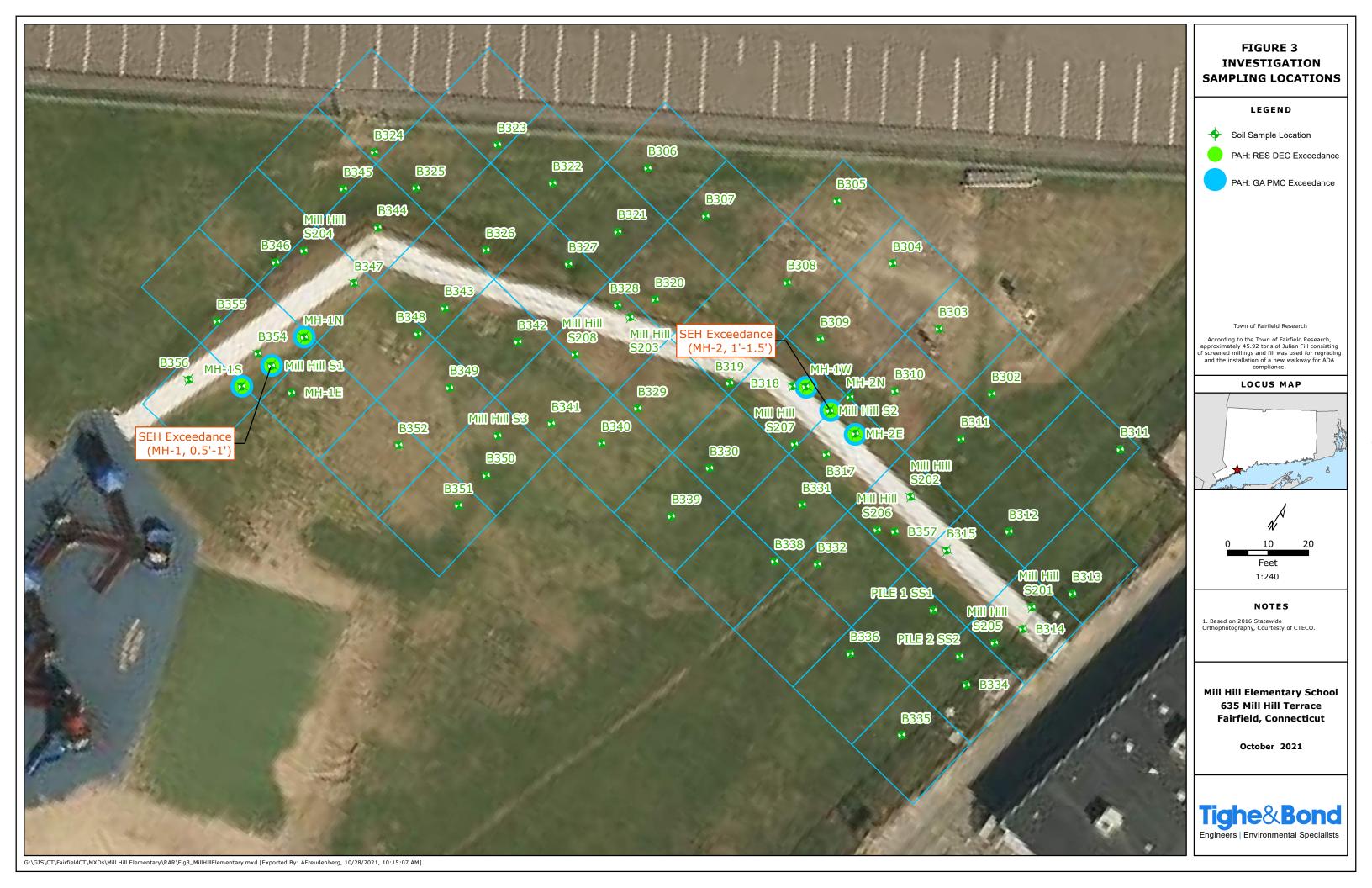
NOTES

Based on 2019 Statewide
Orthophotography, Courtesy of CTECO.

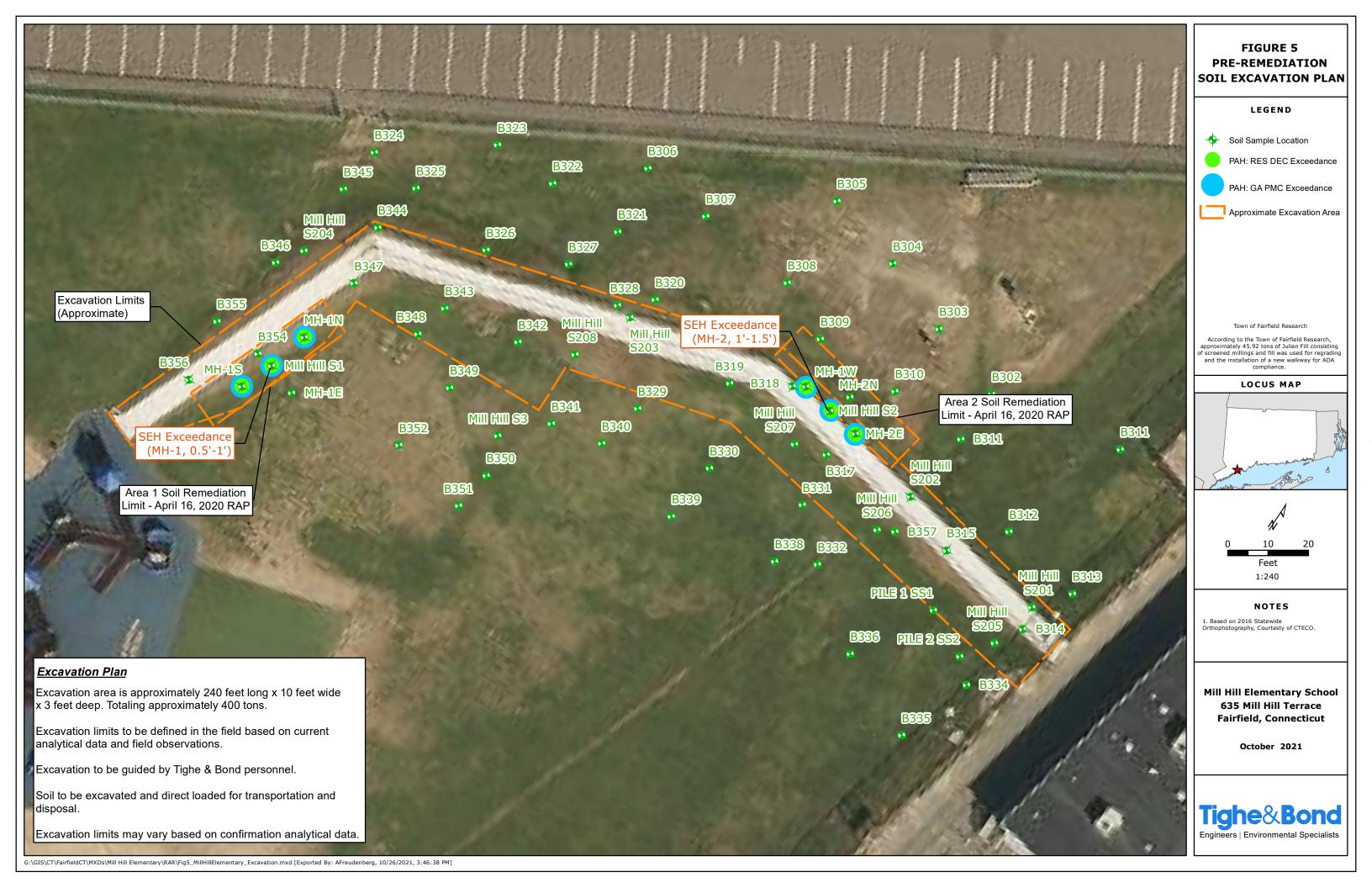
Mill Hill Elementary School 635 Mill Hill Terrace Fairfield, Connecticut

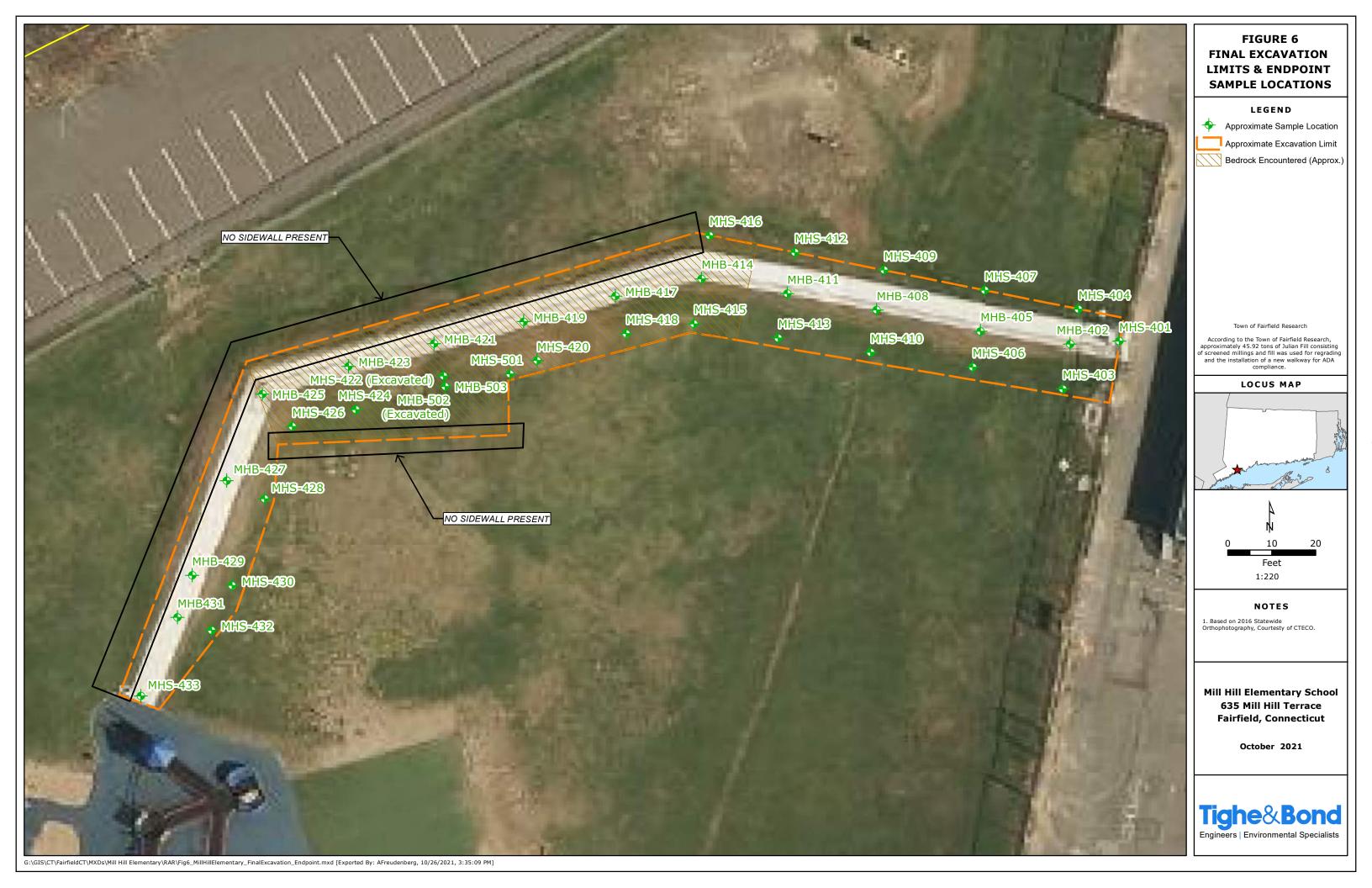
October 2021

Tighe&Bond









**APPENDIX B** 

TABLE 1 Summary of Investigation Data Mill Hill Elementary School Fairfield, Connecticut Last Updated: 10/26/2021

Last Updated: 10/26/2021	CT	DEEP RS	R Criteri	a	US EPA	MILL HILL	MH-1	MH-1	MH-1E	MH-1N	MH-1S	MILL HILL	MH-2	MH-2	MH-2E	MH-2N	MH-2W	MILL HILL	MILLHILL	MILLHILL	MILLHILL	MILLHILL	MILLHILL	MILLHILL	MILLHILL	MILLHILL
Sample ID Sample Depth Sample Date	RES DEC		GA PMC			<b>S1</b> 0-0.5 ft 8/20/19	0.5-1 ft		0-0.5 ft	0-0.5 ft		<b>S2</b> 0-0.5 ft 8/20/19	0.5-1 ft	1-1.5 ft 12/11/19	0-0.5 ft	0-0.5 ft		<b>S3</b> 0-0.5 ft 8/20/19	<b>S201</b> 0-0.5 ft 9/9/19	<b>S202</b> 0-0.5 ft 9/9/19	<b>S203</b> 0-0.5 ft 9/9/19	<b>S204</b> 0-0.5 ft 9/9/19	<b>S205</b> 0-0.5 ft 9/9/19	<b>S206</b> 0-0.5 ft 9/9/19	<b>S207</b> 0-0.5 ft 9/9/19	<b>S208</b> 0-0.5 ft 9/9/19
Lab Sample ID Asbestos PLM 198.12	NA	NA	NA	NA	1%	CD88972 BRL	CE85692				CE85694	CD88973 BRL			CE85703		CE85707	CD88974 BRL	CE00376	CE00377	CE00378	CE00379	CE00380	CE00381	CE00382	CE00383
Total Metals 6010D (mg/Kg) Arsenic Lead	10 400	150 6000	NA NA	NA NA	NA NA	3.22 14.8	-	-	-	-	-	7.6 110	-	-	-	-	-	8.45 34	-	-	-	-	-	-	-	-
CTETPH 8015D (mg/Kg)	500	NE	500	NA	NA	<95	-	-	-	-	-	180	-	-	-	-	-	<53	-	-	-	-	-	-	-	-
PCBs SW8082A (mg/Kg) Total PCBs	1	30	NA	NA	NA	<0.44	-	-	-	-	-	<0.37	-	-	-	-	-	< 0.35	-	-	-	-	-	-	-	-
Pesticides 8081B (mg/Kg) DDE, 4,4- DDT, 4,4- DDT (Total)	NE NE 1.8	NE NE NE	NE NE 0.003	NA NA NA	NA NA NA	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
SPLP Pesticides 8081B (ug/L)	NA	NE	NA	Varies	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAHs SW8270D (mg/Kg) Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluoranthene Indeno(1,2,3-cd)pyrene 2-Methylnaphthalene Napaphthalene Phenanthrene Phenanthrene Pyrene	1,000 1,000 1,000 1 1 1 1 8.4 8.4 84 1 1,000 1,000 1,000 1,000	NE 15,000 15,000 15 15 15 NE 126.00 NE NE 15,000 NE NE 15,000 15,000 15,000	40 1 1 1 1 1 5.6 5.6 1 0.56 5.6 4	NA N	NA N	<1.5 6.3 6.2 14 13 11 8.7 10 14 2.3 27 5.4 9.4 2.4 3.6 26 24	0.87 9 5.1 17 20 14 15 3.3 17 3.2 28 3.6 14 1.1 1.2 21 25	<0.290 2.3 1.6 3.8 4.2 3.3 2.5 2.5 3.7 0.77 7.4 0.78 2.8 <0.290 <0.290 3.7 6.9	<0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300	<0.260 4 2.4 3.8 5.3 4.4 3.6 3.1 3.9 1.2 5.7 1 3.7 <0.260 <0.260 3.2 5.8	<ul> <li>&lt;0.250</li> <li>3.2</li> <li>1.7</li> <li>5.5</li> <li>9.6</li> <li>6.7</li> <li>5.4</li> <li>4.6</li> <li>5.7</li> <li>1.3</li> <li>8.5</li> <li>0.81</li> <li>5.3</li> <li>&lt;0.250</li> <li>0.3</li> <li>3.8</li> <li>8.3</li> </ul>	<1.3 2.5 2.8 7.7 7.7 6.1 4.6 5.7 8.2 1.1 14 1.7 4.9 <0.56 <1.3 12	0.38 4.9 3.2 7 11 7.4 6.1 4.3 7.4 2.1 13 1.7 6 0.32 0.32 6.2 13	1.1 11 7.1 26 31 24 18 4.7 25 5.4 44 4.9 20 1.3 1.3 31	<0.290 0.75 0.44 0.9 2.3 1.5 1.4 1.2 0.98 0.4 1.7 <0.290 1.7 <0.290 0.96 1.7	<0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300	<0.290 0.64 0.36 1.1 1.4 1.1 1.2 0.93 1.2 0.33 1.9 <0.290 1.4 <0.290 <0.290 0.883 2	<0.24 <0.24 <0.24 <0.24 <0.24 <0.24 <0.24 <0.24 <0.24 <0.24 <0.24 <0.24 <0.24 <0.24 <0.24 <0.24 <0.24	<0.29 <0.29 <0.29 <0.29 <0.35 0.31 <0.29 0.32 <0.29 0.56 <0.29 0.50 0.29 <0.29 <0.29 <0.29 <0.29	<0.27 <0.27 <0.27 0.44 0.52 0.47 0.41 0.43 0.52 <0.27 0.88 <0.27 0.45 <0.27 <0.27	<0.28 <0.28 <0.28 0.58 0.73 0.63 0.6 0.58 0.68 <0.28 1.1 <0.28 0.63 <0.28 <0.28	<0.26 0.3 <0.26 0.66 0.81 0.72 0.57 0.69 0.76 <0.26 1.4 <0.26 0.62 <0.26 0.62 <0.26 1.3	<0.26 <0.26 <0.26 0.28 0.37 0.35 0.31 0.34 <0.26 0.52 <0.26 0.35 <0.26 <0.26	<0.28 <0.28 <0.28 0.38 0.49 0.45 0.4 0.41 0.48 <0.28 0.75 <0.28 0.45 <0.28 0.75 <0.28	<0.29 <0.29 <0.29 0.45 0.52 0.46 0.39 0.43 0.55 <0.29 0.88 <0.29 0.41 <0.29 <0.29	<0.28 <0.28 <0.28 0.39 0.52 0.46 0.44 0.41 0.44 <0.28 0.71 <0.28 0.47 <0.28 0.28 0.28
SPLP PAHs SW8270D (ug/Kg) Acenaphthene Acenaphthylene Anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluoranthene Cluoranthene Cluoranthene Service (a,b)anthracene Fluoranthene Fluoranthene Fluoranthene Fluoranthene Pluoranthene 2-Methylnaphthalene Naphthalene Phenanthrene Pyrene CTDEEP RSRS- Connecticut Departme	NA N	NE N	NA N	420 420 2,000 0.06 0.2 0.08 0.48 0.5 4.8 0.1 280 280 0.1 28 280 200 200	NA N		<0.5 0.38 <0.5 0.22 0.37 0.27 0.59 <0.3 <0.5 0.18 <0.5 <0.5 <0.5 0.64 <0.5		-	-	-	-	-	0.66 1.2 0.85 0.7 1.2 0.87 0.72 0.14 1.8 1.5 1.4 0.63 1.5 3.3	-					-				-	-	
Environmental Protection Remediat Regulations (February 16, 2021) ar CTDEEP Additional Polluting Substan RES DEC-Residential Direct Exposur PMC- Pollutant Mobility Criteria GWPC - Groundwater Protection Crit NE- Not established NA- Not Applicable SEH - Significant Environmental Haz CT ETPH- Connecticut Department of Extractable Total Petroleum Hydrocal PCBs- Polycyclic Aromatic Hydrocarl PCBs- Polycyclic Aromatic Hydrocarl PCBs- Polychlorinated Biphenyls <x (pl<="" -="" 198.1="" 62-="" above="" analysis="" app.="" asbestos="" blue="" boxed="" bulk="" compound="" e="" e,="" exceeda="" exceedance="" exceedances="" grey="" indicate="" materia="" not="" nys-doh="" of="" prov="" red="" screy="" shaded="" sub.="" td="" values="" was=""><td>ed ces (Septe e Criteria eria eria eria eria erio en ces e</td><td>ealth ting limit C A PMC H FR Part 70</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></x>	ed ces (Septe e Criteria eria eria eria eria erio en ces e	ealth ting limit C A PMC H FR Part 70																								

<sup>&</sup>lt;sup>2</sup>- Asbestos analysis of Bulk Materials via 40 CFR Part 763,

Sub. E, App. E/NYS-DOH 198.1 (PLM) by Eastern Analytical Services, Inc. SPLP PAHs and Pesticides compared to numeric GWPC

TABLE 1 Summary of Investigation Data Mill Hill Elementary School Fairfield, Connecticut Last Updated: 10/26/2021

Last Updated: 10/26/2021	C.	TDEEP R	SR Crite	eria	US EPA	B301	B301	B302	B303	B303	B304	B304	B305	B306	B306	B307	B308	B308	B309	B309	B310	B310	B311	B311	B311 DUP	B312	B313	B314	B315
Sample ID																													
Sample Depth Sample Date Lab Sample ID	RES DEC	C SEH	ga pn	MC GWPC		4/13/21	1 - 1.5 ft 4/13/21 CI00535	4/13/21	4/13/21		4/13/21	4/13/21	4/13/21	4/13/21		0 - 1 ft 4/13/21 CI00523	4/13/21	4/13/21		4/13/21	4/13/21	4/13/21		4/13/21	4/13/21	4/13/21	0.5 - 1.5 ft 4/15/21 CI00595	4/15/21	
Asbestos PLM 198.1 <sup>2</sup>	NA	NA	NA	NA	1%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Metals 6010D (mg/Kg)</b> Arsenic Lead	10 400	150 6000	NA NA		NA NA	-	Ī	Ē	Ē	Ī	Ē	Ē	Ē	-	Ē	Ī	Ī	-	Ī	-	Ī	Ē	-	-	-	Ī	-	-	-
CTETPH 8015D (mg/Kg)	500	NE	500	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs SW8082A (mg/Kg) Total PCBs	1	30	NA	NA	NA	<0.39	<0.38	<0.39	<0.36	<0.37	<0.35	<0.37	<0.38	<0.37	<0.36	<0.38	<0.4	<0.4	<0.4	<0.37	<0.39	<0.37	<0.38	<0.37	<0.36	<0.39	<0.38	<0.34	<0.35
Pesticides 8081B (mg/Kg) DDE, 4,4- DDT, 4,4- DDT (Total)	NE NE 1.8	NE NE NE	NE NE 0.00		NA NA NA	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	<0.0016 <0.0016 ND	- - -	- - -	- - -							
SPLP Pesticides 8081B (ug/L)	NA	NE	NA	Varies	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAHs SW8270D (mg/Kg) Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluoranthene Indeno(1,2,3-cd)pyrene 2-Methylnaphthalene Naphthalene Phenanthrene Pyrene	1,000 1,000 1,000 1,000 1 1 1 1 8.4 8.4 1 1,000 1,000 1,000 1,000 1,000	15,000 15 15 15 15 NE 126.0 NE NE 15,000 15,000 NE NE 15,000	1 40 1 1 1 1 1 1 1 1 1 0 5.66 0 5.66 1 0.56 0 5.66	NA N	NA N																								
SPLP PAHs SW8270D (ug/Kg) Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benzo(b)fluoranthene Benzo(ghi)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene 2-Methylnaphthalene Naphthalene Phenanthrene Pyrene	NA N	NE N	NA N	420 2,000 0.06 0.2 0.08 0.48 0.5 4.8 0.1 280 280 0.1 28 280 200	NA N																								

CTDEEP RSRs- Connecticut Department of Energy and Environmental Protection Remediation Standard Regulations (February 16, 2021) and

Regulations (February 16, 2021) and
CTDEEP Additional Polluting Substances (September 20, 2018)
RES DEC-Residential Direct Exposure Criteria
PMC- Pollutant Mobility Criteria
GWPC - Groundwater Protection Criteria
NE- Not established
NA- Not Applicable
SEH - Significant Environmental Hazard
CT ETPH- Connecticut Department of Public Health
Extractable Total Petroleum Hydrocarbons
PAHs- Polycyclic Aromatic Hydrocarbons
PCBs- Polychlorinated Biphenyls
<x - compound was not above provided reporting limit
Boxed values indicate exceedances of RES DEC
Grey shaded values indicate exceedances of SEH
Blue values indicate exceedances of SEH
Blue values indicate exceedance of GWPC
2- Asbestos analysis of Bulk Materials via 40 CFR Part 763, <sup>2</sup>- Asbestos analysis of Bulk Materials via 40 CFR Part 763,

TABLE 1 Summary of Investigation Data Mill Hill Elementary School Fairfield, Connecticut Last Updated: 10/26/2021

Sample ID           Sample Depth Sample Date Lab Sample ID         RES DEC         SEH           Asbestos PLM 198.12         NA         NA           Total Metals 6010D (mg/Kg) Arsenic Lead         10         150           Lead         400         6000           CTETPH 8015D (mg/Kg)         500         NE           PCBs SW8082A (mg/Kg)         1         30           Pesticides 8081B (mg/Kg)         NE         NE	NA NA	NA NA NA	1% NA NA	4/14/21	4/14/21		4/14/21	4/14/21		4/14/21	4/14/21	4/14/21	4/14/21	4/14/21	4/14/21	4/14/21	0 - 1 ft 4/14/21				1 - 2 ft 4/13/21			1 - 2 ft 4/13/21	0 - 1 ft 4/13/21	4/13/21	4/13/21	
Asbestos PLM 198.12 NA NA  Total Metals 6010D (mg/Kg) Arsenic 10 150 400 6000  CTETPH 8015D (mg/Kg) 500 NE  PCBs SW8082A (mg/Kg) Total PCBs 1 30  Pesticides 8081B (mg/Kg)	NA NA	NA NA	NA NA	-	-	- =	-	-	-	-	-	2100370			CI00549	CI00550	CI00557								CI00496	( )()(1447	CIONSNA	
Arsenic 10 150 400 6000  CTETPH 8015D (mg/Kg) 500 NE  PCBs SW8082A (mg/Kg) 1 30  Pesticides 8081B (mg/Kg)	NA	NA	NA	-	-	-	-	_				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs SW8082A (mg/Kg) Total PCBs 1 30 Pesticides 8081B (mg/Kg)	500	NA	NA				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs 1 30 Pesticides 8081B (mg/Kg)				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NA	NA	NA	<0.35	<0.35	<0.39	<0.36	<0.36	<0.36	<0.38	<0.36	<0.36	<0.35	<0.36	<0.35	<0.42	<0.36	<0.35	<0.4	<0.37	<0.36	<0.37	<0.37	<0.45	<0.38	<0.35	<0.38	<0.37
DDE, 4,4- DDT, 4,4- DDT (Total)  NE NE NE NE 1.8 NE	NE NE 0.003	NA NA NA	NA NA NA	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
SPLP Pesticides 8081B (ug/L) NA NE	NA	Varies	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAHs SW8270D (mg/Kg)           Acenaphthene         1,000         NE           Acenaphthylene         1,000         15,000           Anthracene         1,000         15,000           Benzo(a)anthracene         1         15           Benzo(b)fluoranthene         1         15           Benzo(b)fluoranthene         8.4         NE           Benzo(k)fluoranthene         8.4         126.0           Chrysene         84         NE           Dibenz(a,h)anthracene         1         NE           Fluoranthene         1,000         15,000           Fluorene         1,000         15,000           Indeno(1,2,3-cd)pyrene         1         NE           2-Methylnaphthalene         270         NE           Naphthalene         1,000         15,000           Pyrene         1,000         15,000           SPLP PAHs SW8270D (ug/Kg)         Nacenaphthene         NA           Acenaphthylene         NA         NE           Anthracene         NA         NE           Benzo(a)anthracene         NA         NE           Benzo(b)fluoranthene         NA         NE           Benzo(b)fluoranthene         NA         NE	0 40 1 1 1 1 1 0 5.6 0 5.6 1 0.56 0 5.6 0 5.6 0 5.6	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA N																									
Dibenz(a,h)anthracene         NA         NE           Fluoranthene         NA         NE           Fluorene         NA         NE           Indeno(1,2,3-cd)pyrene         NA         NE           2-Methylnaphthalene         NA         NE           Naphthalene         NA         NE           Phenanthrene         NA         NE           Pyrene         NA         NE	NA NA NA NA NA NA	0.1 280 280 0.1 28 280 200 200	NA NA NA NA NA NA	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	-	-	-	-	-	-	- - - - -	-	- - - - - -	-	-	-	-	-	-	-	- - - - -	- - - - -	-

TABLE 1 Summary of Investigation Data Mill Hill Elementary School Fairfield, Connecticut Last Updated: 10/26/2021

	СТ	DEEP RS	R Criteri	a	US EPA	B326	B326	B326	B327	B327	B328	B329	B330	B331	B332	B334	B335	B336	B338	B339	B340	B341	B342	B343	B343	B343	B344	B344	B344
ample ID ample Depth						0 - 1 ft	1 - 2 ft	2 - 3 ft	0 - 1 ft			0 - 1 ft	0 - 1 ft	0 - 1 ft		0.5 - 1.5 ft			0 - 1 ft	1 - 2 ft	2 - 3 ft	0 - 1 ft	1 - 2 ft	2 - 3 f					
ample Date ab Sample ID	RES DEC		GA PMC		101	4/14/21 CI00577	4/14/21	4/14/21 CI00579	4/14/21	4/14/21	4/14/21	4/14/21	4/14/21 CI00555	4/14/21	4/14/21 CI00552	4/15/21 CI00593	4/15/21 CI00594	4/14/21	4/14/21	4/14/21	4/14/21	4/14/21	4/14/21	4/14/21	4/14/21	4/14/21		4/14/21	4/14/2
sbestos PLM 198.1 <sup>2</sup>	NA	NA	NA	NA	1%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
otal Metals 6010D (mg/Kg) rsenic ead	10 400	150 6000	NA NA	NA NA	NA NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TETPH 8015D (mg/Kg)	500	NE	500	NA	NA	-	-	-	-	-	-	_	-	-	-	_	-	-	-	-	-	-	-	-	_	_	-	-	-
CBs SW8082A (mg/Kg) otal PCBs		30	NA	NIA	NIA	<0.2E	-0.36	-0.36	×0.27	<0.22	<0.39	-0.42	<0.30	-0.36	-0.27	×0.26	<0.2E	-0.36	<0.27	<0.2E	×0.27	<0.30	-0.39	<0.2E	<0.27	<0.27	<0.2F	<0.2F	<0.36
esticides 8081B (mg/Kg)	1	30	NA	NA	NA	<0.35	<0.36	<0.36	<0.37	<0.33	<0.38	<0.42	<0.39	<0.36	<0.37	<0.36	<0.35	<0.36	<0.37	<0.35	<0.37	<0.38	<0.38	<0.35	<0.37	<0.37	<0.35	<0.35	<0.36
DE, 4,4- DT, 4,4-	NE	NE NE	NE NE	NA NA	NA NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DT (Total)	NE 1.8	NE	0.003	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLP Pesticides 8081B (ug/L)	NA	NE	NA	Varies	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AHs SW8270D (mg/Kg)	1 000	NIE	0.4	NIA	NIA																								
cenaphthene cenaphthylene	1,000 1,000	NE 15,000	<i>8.4</i> 8.4	NA NA	NA NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
nthracene	1,000	15,000	40	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
enz(a)anthracene enzo(a)pyrene	1	15 15	1	NA NA	NA NA	-	-	_	_	-	-	_	_	_	_	_	-	-	-	-	-	-	-	-	-	-	-	-	_
enzo(b)fluoranthene	1	15	1	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
enzo(ghi)perylene enzo(k)fluoranthene	<i>8.4</i> 8.4	NE 126.0	1 1	NA NA	NA NA	_	-	_	_	-	-	_	-	-	_	_	-	-	-	-	-	-	-	-	-	_	-	-	_
hrysene	84	NE	1	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ibenz(a,h)anthracene luoranthene	<i>1</i> 1,000	NE 15,000	<i>1</i> 5.6	NA NA	NA NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
luorene	1,000	15,000	5.6	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ndeno(1,2,3-cd)pyrene -Methylnaphthalene	1 270	NE NE	1 0.56	NA NA	NA NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
aphthalene	1,000	15,000	5.6	NA	NA	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
henanthrene yrene	1,000 1,000	15,000 15,000	4 4	NA NA	NA NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLP PAHs SW8270D (ug/Kg)	_,	,																											
cenaphthene	NA	NE	NA	420	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cenaphthylene nthracene	NA NA	NE NE	NA NA	420 2,000	NA NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
enz(a)anthracene	NA	NE	NA	0.06	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
enzo(a)pyrene enzo(b)fluoranthene	NA NA	NE NE	NA NA	0.2 0.08	NA NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
enzo(ghi)perylene	NA	NE	NA	0.08	NA	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
enzo(k)fluoranthene	NA	NE	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
hrysene ibenz(a,h)anthracene	NA NA	NE NE	NA NA	4.8 0.1	NA NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
luoranthene	NA	NE	NA	280	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
luorene	NA	NE	NA	280	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ndeno(1,2,3-cd)pyrene -Methylnaphthalene	NA NA	NE NE	NA NA	0.1 28	NA NA	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
aphthalene henanthrene	NA	NE	NA	280	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NA	NE NE	NA NA	200 200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-

TABLE 1 Summary of Investigation Data Mill Hill Elementary School Fairfield, Connecticut
Last Updated: 10/26/2021

Last Updated: 10/26/2021	СТ	DEEP RS	R Criteri	а	US EPA	B345	B345	B345	B346	B346	B346	B347	B347	B348	B350	B351	B352	B354	B354	B355	B355	B355	B356	B356	B356	B356	B357	B357	B357
Sample ID																													
Sample Depth Sample Date Lab Sample ID	RES DEC		GA PMC			0 - 1 ft 4/13/21 CI00499	4/13/21	4/13/21			4/13/21				4/14/21	4/14/21		4/14/21	4/14/21	0 - 1 ft 4/13/21 CI00506	1 - 2 ft 4/13/21 CI00507	4/13/21	4/13/21	4/13/21	4/13/21	4/13/21		4/14/21	4/14/2
Asbestos PLM 198.1 <sup>2</sup>	NA	NA	NA	NA	1%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Metals 6010D (mg/Kg) Arsenic Lead	10 400	150 6000	NA NA	NA NA	NA NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CTETPH 8015D (mg/Kg)	500	NE	500	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs SW8082A (mg/Kg) Total PCBs	1	30	NA	NA	NA	<0.38	<0.39	<0.38	<0.36	< 0.4	<0.39	<0.35	<0.35	<0.35	<0.39	<0.38	<0.4	<0.36	<0.4	<0.39	<0.4	<0.38	<0.37	<0.37	<0.36	<0.37	<0.36	<0.35	<0.35
Pesticides 8081B (mg/Kg) DDE, 4,4- DDT, 4,4- DDT (Total)	NE NE 1.8	NE NE NE	NE NE 0.003	NA NA NA	NA NA NA	- - -	- - -	- - -	0.01500 0.02600 <i>0.041</i>	- - -	<0.0016 <0.003 ND	- - -	- - -	- - -	- - -	- - -	- - -	<0.0015 <0.0015 ND		- - -									
SPLP Pesticides 8081B (ug/L)	NA	NE	NA	Varies	NA	-	-	-	BRL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAHs SW8270D (mg/Kg) Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(ghi)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluoranthene Indeno(1,2,3-cd)pyrene 2-Methylnaphthalene Naphthalene Phenanthrene Pyrene	1,000 1,000 1,000 1 1 1 1 8.4 8.4 84 1 1,000 1,000 1,000 1,000	NE 15,000 15,000 15 15 15 15 NE 126.0 NE NE 15,000 15,000 15,000	1 1 1 1 1 5.6 5.6 1 0.56 5.6 4	NA N	NA N																								
SPLP PAHs SW8270D (ug/Kg) Acenaphthene Acenaphthylene Anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(b)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene 2-Methylnaphthalene Naphthalene Perene	NA N	NE N	NA N	420 420 2,000 0.06 0.2 0.08 0.5 4.8 0.1 280 0.1 28 280 200 200	NA N		-								-						-								
CTDEEP RSRs- Connecticut Departm Environmental Protection Remediat Regulations (February 16, 2021) ar CTDEEP Additional Polluting Substan RES DEC-Residential Direct Exposur PMC- Pollutant Mobility Criteria GWPC - Groundwater Protection Crit NE- Not established NA- Not Applicable SEH - Significant Environmental Haz CT ETPH- Connecticut Department of Extractable Total Petroleum Hydroc PAHs- Polycyclic Aromatic Hydrocarl PCBs- Polychlorinated Biphenyls <x (pl<="" -="" 198.1="" 42-="" above="" analysis="" app.="" asbestos="" blue="" boxed="" bulk="" compound="" e="" e,="" exceeda="" exceedance="" exceedances="" grey="" indicate="" materia="" not="" nys-doh="" of="" prov="" shaded="" sub.="" td="" values="" was=""><td>ion Standand ices (Septe e Criteria ceria  card if Public He arbons cons ided report of RES DEC ances of GA nces of SEI GWPC Is via 40 Ci</td><td>nd limit  A PMC  H  FR Part 70</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></x>	ion Standand ices (Septe e Criteria ceria  card if Public He arbons cons ided report of RES DEC ances of GA nces of SEI GWPC Is via 40 Ci	nd limit  A PMC  H  FR Part 70																											

TABLE 1 Summary of Investigation Data Mill Hill Elementary School Fairfield, Connecticut Last Updated: 10/26/2021

Sample ID	СТІ	DEEP RS	R Criteria	a	US EPA	PILE-1 SS1	PILE-1 SS2
Sample Depth Sample Date Lab Sample ID	RES DEC	SEH	GA PMC	GWPC		- 4/14/21 CI00590	- 4/14/21 CI00591
Asbestos PLM 198.1 <sup>2</sup>	NA	NA	NA	NA	1%	-	-
Total Metals 6010D (mg/Kg) Arsenic Lead	10 400	150 6000	NA NA	NA NA	NA NA	-	Ī
CTETPH 8015D (mg/Kg)	500	NE	500	NA	NA	-	-
PCBs SW8082A (mg/Kg) Total PCBs	1	30	NA	NA	NA	<0.38	<0.38
Pesticides 8081B (mg/Kg) DDE, 4,4-	NE	NE	NE	NA	NA	-	-
DDT, 4,4- DDT (Total)	NE 1.8	NE NE	NE <b>0.003</b>	NA NA	NA NA	<del>-</del> -	-
SPLP Pesticides 8081B (ug/L)	NA	NE	NA	Varies	NA	-	-
PAHs SW8270D (mg/Kg)	1,000	NE	8.4	NA	NA	_	_
cenaphthylene	1,000	15,000	8.4	NA	NA	-	-
Anthracene	1,000	15,000	40	NA	NA	-	-
Benz(a)anthracene	1 1	15 15	1 1	NA NA	NA NA	-	-
Benzo(a)pyrene Benzo(b)fluoranthene	1	15 15	1	NA	NA NA	-	-
Benzo(ghi)perylene	8.4	NE	1	NA	NA	-	-
Benzo(k)fluoranthene	8.4	126.0	1	NA	NA	-	-
Chrysene	84	NE	1	NA	NA	-	-
Dibenz(a,h)anthracene	1	NE	1	NA	NA	-	-
luoranthene	1,000	15,000	5.6	NA	NA	-	-
Fluorene	1,000	15,000 NE	5.6 <i>1</i>	NA NA	NA NA	-	-
ndeno(1,2,3-cd)pyrene 2-Methylnaphthalene	1 270	NE	0.56	NA	NA NA	_	-
laphthalene	1,000	15,000	5.6	NA	NA	_	_
Phenanthrene	1,000	15,000	4	NA	NA	-	-
Pyrene	1,000	15,000	4	NA	NA	-	-
SPLP PAHs SW8270D (ug/Kg) Acenaphthene	NA	NE	NA	420	NA	-	-
Acenaphthylene	NA	NE	NA	420	NA	-	-
Inthracene	NA	NE	NA	2,000	NA	-	-
Benz(a)anthracene	NA NA	NE NE	NA NA	0.06 0.2	NA NA	-	-
Benzo(a)pyrene Benzo(b)fluoranthene	NA NA	NE	NA	0.2	NA NA	-	-
Benzo(ghi)perylene	NA	NE	NA	0.48	NA	_	-
Benzo(k)fluoranthene	NA	NE	NA	0.5	NA	-	-
Chrysene	NA	NE	NA	4.8	NA	-	-
Dibenz(a,h)anthracene	NA	NE	NA	0.1	NA	-	-
Fluoranthene	NA	NE	NA	280	NA	-	-
Fluorene Indeno(1,2,3-cd)pyrene	NA NA	NE NE	NA NA	280 0.1	NA NA	-	-
2-Methylnaphthalene	NA NA	NE NE	NA NA	28	NA NA	-	-
Naphthalene	NA	NE	NA	280	NA	-	-
Phenanthrene	NA	NE	NA	200	NA	-	-
yrene	NA	NE	NA	200	NA	-	-
CTDEEP RSRs- Connecticut Departm Environmental Protection Remediati Regulations (February 16, 2021) an CTDEEP Additional Polluting Substan	on Standar d ces (Septer	qv and d					
RES DEC-Residential Direct Exposure PMC- Pollutant Mobility Criteria	e Criteria						
GWPC - Groundwater Protection Crite	eria						
NE- Not established							
NA- Not Applicable							
SEH - Significant Environmental Haz CT ETPH- Connecticut Department of		alth					
Extractable Total Petroleum Hydroca		aitii					
PAHs- Polycyclic Aromatic Hydrocarb							
PCBs- Polychlorinated Biphenyls							
<x -="" above="" compound="" not="" provi<="" td="" was=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></x>							
Boxed values indicate exceedances of							
Grey shaded values indicate exceeda							
Red shaded values indicate exceedar		1					
Blue values indicate exceedance of G 2- Asbestos analysis of Bulk Material		D Dart 74	3				
Sub. E, App. E/NYS-DOH 198.1 (PL)			,,				
Analytical Services, Inc.	i, by Laste	-111					
SPLP PAHs and Pesticides compared	to numeric	GWPC					
		-					
orer rails and resticides compared	to numeric	GWPC					

Tighe&Bond

TABLE 2
Summary of Non-Investigation Data

Mill Hill Elementary School Fairfield, Connecticut

Last Updated: 10/26/2021						
Sample ID	CT RSR	Criteria	US EPA	MILL HILL S100	MILL HILL S101	MILL HILL S102
Sample Depth				1.5-1.75 FT	1-1.25 FT	1-1.25 FT
Sample Date	RES DEC	GA PMC		9/4/19	9/4/19	9/4/19
Lab Sample ID				CD98467	CD98468	CD98469
Asbestos PLM 198.1 <sup>2</sup>						
% Amosite	NA	NA	NA	0.0%	0.0%	0.0%
% Chrysotile	NA	NA	NA	0.0%	0.0%	0.0%
% Other	NA	NA	NA	0.0%	0.0%	0.0%
% Total Asbestos	NA	NA	1%	0.0%	0.0%	0.0%
<b>Total Metals 6010D (mg/Kg)</b> Arsenic Lead	10 400	NA NA	NA NA	1.91 11	2.98 3.16	2.08 3.71
CTETPH 8015D (mg/Kg)	500	500	NA	<59	<58	<58
PCBs 8082A (mg/Kg) Total PCBs	1	NA	NA	<0.39	<0.39	<0.38
PAHs 8270D (mg/Kg)	Varies	Varies	NA	BRL	BRL	BRL
Pesticides 8081B (mg/Kg)	Varies	Varies	NA	BRL	BRL	BRL

CTDEEP RSRs- Connecticut Department of Energy and

**Environmental Protection Remediation Standard** 

Regulations (February 16, 2021) and

CTDEEP Additional Polluting Substances (September 20, 2018)

RES DEC-Residential Direct Exposure Criteria

PMC- Pollutant Mobility Criteria

BRL - Below Reporting Limit

NA- Not Applicable

SEH - Significant Environmental Hazard

CT ETPH- Connecticut Department of Public Health

Extractable Total Petroleum Hydrocarbons

PAHs- Polycyclic Aromatic Hydrocarbons

PCBs- Polychlorinated Biphenyls

<x - compound was not above provided reporting limit

Only compounds reported above reporting limits are shown above

2- Asbestos analysis of Bulk Materials via 40 CFR Part 763,

Sub. E, App. E/NYS-DOH 198.1 (PLM) by Eastern

Analytical Services, Inc.

TABLE 3 Summary of Remediation Sample Analytical Data Mill Hill Elementary School Fairfield, Connecticut Last Updated: 10/26/2021

Sample Name		TDEEP	RSR	MHB 402	MHB 405	MHB 408	MHB 411	MHB 411D	MHB 414	MHB 417	MHB 419	MHB 421	MHB 423	MHB 425	MHB 427	MHB 427D	MHB 429	MHB 431	MHS 401	MHS 403	MHS 404	MHS 406	MHS 407	MHS 409	MHS 410
Sample Depth		Criteri		3 ft	2 ft	1 ft	1 ft	1 ft	2 ft	3 ft	3 ft	3 ft	1 ft	0.5 ft	1.5 ft	1 ft	1.5 ft	1.5 ft	1.5 ft	1.5 ft	1.5 ft				
Sample Date				7/1/2021	7/1/2021	7/1/2021	7/1/2021	7/1/2021	7/1/2021	7/1/2021	7/1/2021	7/1/2021	7/2/2021	7/2/2021	7/2/2021	7/2/2021	7/2/2021	7/2/2021	7/1/2021	7/1/2021	7/1/2021	7/1/2021	7/1/2021	7/1/2021	7/1/2021
Lab Sample ID	RES	GA	GWPC	CI66824	CI66827	CI66830	CI66833	CI66834	CI66837	CI66840	CI66842	CI66844	CI67319	CI67321	CI67323	CI67324	CI67326	CI67328	CI66823	CI66825	CI66826	CI66828	CI66829	CI66831	CI66832
Lab Report ID	DEC	PMC	OWIC	GCI66823	GCI66823	GCI66823		GCI66823	GCI66823	GCI66823		GCI66823				GCI67319	GCI67319		GCI66823	GCI66823		GCI66823	GCI66823	GCI66823	
CTETPH 8015D (mg/Kg)	500		NA	<59	<54	<56	<56	<57	<280	<57	<57	<58	<63	<60	<59	<60	<60	<59	<51	<280	<55	<59	<60	<62	<59
, 5. 5,																									
Metals 6010D (mg/Kg)																									
Arsenic	10	NA	NA	5.09	3.27	2.73	2.18	1.71	2.86	3.37	3.39	4.88	4.96	3.85	3.34	4.46	3.06	5.09	5.4	3.66	4.53	4.19	5.75	4.38	5.07
Lead	400	NA	NA	14	6.12	7.65	9.2	9.33	10.2	8.18	6.71	20.1	8.73	8.62	9.87	14.6	11.3	20.6	3.57	10.2	10.3	17.6	11.8	17.6	17.5
SPLP Metals 6010D (mg/L)																									
Arsenic	NA	0.05	NA	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	< 0.004	_	_	_	< 0.004	_	_
Lead	NA	0.015	NA	-	-	-	-	-	-	-	-	< 0.010	-	-	-	-	-	< 0.010	-	-	-	-	-	-	-
Pesticides 8081B (mg/Kg)																									
DDE, 4,4-	NE	NE	NA	< 0.0016	< 0.0014	< 0.0015	< 0.0015	< 0.0015	< 0.0017	< 0.0015	< 0.0015	< 0.0016	< 0.0017	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0014	< 0.0015	< 0.0014	< 0.0016	< 0.0016	< 0.0016	< 0.0016
DDT, 4,4-	NE	NE	NA	< 0.0016	< 0.0014	< 0.0015	< 0.0015	< 0.0015	< 0.003	< 0.0015	< 0.0015	< 0.0016	< 0.0017	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0014	< 0.0015	< 0.0014	< 0.0016	< 0.0016	< 0.0016	< 0.0016
DDT (Total)	1.8	0.003	NA	ND																					
SPLP Pesticides 8081B (ug/L)	NA	NA	Varies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs 8082A (mg/Kg)																									
PCBs (Total )	1	NA	NA	<0.2	< 0.18	<0.18	<0.19	<0.19	<0.18	<0.18	<0.19	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	< 0.19	<0.17	<0.18	<0.18	<0.2	<0.2	<0.2	<0.2
PAHs 8270D (mg/Kg)																									
Acenaphthene	1,000	8.4	NA	< 0.28	< 0.25	< 0.26	< 0.26	0.26	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.27	< 0.28	< 0.27	< 0.27	< 0.23	< 0.25	< 0.26	< 0.27	< 0.28	< 0.28	< 0.28
Acenaphthylene	1,000	8.4	NA	< 0.28	< 0.25	< 0.26	< 0.26	0.26	1	< 0.26	0.65	< 0.28	< 0.29	< 0.28	< 0.27	< 0.28	< 0.27	< 0.27	< 0.23	< 0.25	< 0.26	< 0.27	< 0.28	< 0.28	< 0.28
Anthracene	1,000	40	NA	< 0.28	< 0.25	< 0.26	< 0.26	0.26	0.7	< 0.26	0.95	< 0.28	< 0.29	< 0.28	< 0.27	< 0.28	< 0.27	< 0.27	< 0.23	< 0.25	< 0.26	< 0.27	< 0.28	< 0.28	< 0.28
Benzo(a)anthracene	1	1	NA	< 0.28	< 0.25	< 0.26	0.35	0.26	1.7	< 0.26	2	0.32	< 0.29	0.38	< 0.27	< 0.28	< 0.27	0.53	< 0.23	< 0.25	< 0.26	< 0.27	< 0.28	< 0.28	< 0.28
Benzo(a)pyrene	1	1	NA	< 0.28	< 0.25	< 0.26	0.59	0.26	1.9	< 0.26	1.5	0.39	< 0.29	0.36	< 0.27	0.31	< 0.27	0.57	< 0.23	< 0.25	< 0.26	< 0.27	< 0.28	< 0.28	< 0.28
Benzo(b)fluoranthene	1	1	NA	< 0.28	< 0.25	< 0.26	0.61	0.26	1.7	< 0.26	1.3	0.33	< 0.29	0.31	< 0.27	< 0.28	< 0.27	0.52	< 0.23	< 0.25	< 0.26	< 0.27	< 0.28	< 0.28	< 0.28
Benzo(g,h,i)perylene	8.4	1	NA	< 0.28	< 0.25	< 0.26	0.36	0.26	1.3	< 0.26	0.91	0.28	< 0.29	< 0.28	< 0.27	0.39	< 0.27	0.42	< 0.23	< 0.25	< 0.26	< 0.27	< 0.28	< 0.28	< 0.28
Benzo(k)fluoranthene	8.4	1	NA	< 0.28	< 0.25	< 0.26	0.41	0.26	1.5	< 0.26	1.3	0.29	< 0.29	0.3	< 0.27	< 0.28	< 0.27	0.44	< 0.23	< 0.25	< 0.26	< 0.27	< 0.28	< 0.28	< 0.28
Chrysene	84	1	NA	< 0.28	< 0.25	< 0.26	0.38	0.26	1.8	< 0.26	2.1	0.35	< 0.29	0.39	< 0.27	< 0.28	< 0.27	0.52	< 0.23	< 0.25	< 0.26	< 0.27	< 0.28	< 0.28	< 0.28
Dibenz(a,h)anthracene	1	1	NA	< 0.28	< 0.25	< 0.26	< 0.26	0.26	0.28	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.27	< 0.28	< 0.27	< 0.27	< 0.23	< 0.25	< 0.26	< 0.27	< 0.28	< 0.28	< 0.28
Fluoranthene	1,000	5.6	NA	< 0.28	< 0.25	< 0.26	0.59	0.26	3.3	< 0.26	4.2	0.64	< 0.29	1	0.27	0.47	< 0.27	1.3	< 0.23	< 0.25	< 0.26	< 0.27	< 0.28	< 0.28	< 0.28
Fluorene	1,000	5.6	NA	< 0.28	< 0.25	< 0.26	< 0.26	0.26	0.41	< 0.26	0.48	< 0.28	< 0.29	< 0.28	< 0.27	< 0.28	< 0.27	< 0.27	< 0.23	< 0.25	< 0.26	< 0.27	< 0.28	< 0.28	< 0.28
Indeno(1,2,3-cd)pyrene	1	1	NA	< 0.28	< 0.25	< 0.26	0.33	0.26	1.1	< 0.26	0.91	< 0.28	< 0.29	< 0.28	< 0.27	0.33	< 0.27	0.45	< 0.23	< 0.25	< 0.26	< 0.27	< 0.28	< 0.28	< 0.28
Methylnaphthalene, 2-	270	0.56	NA	< 0.28	< 0.25	< 0.26	< 0.26	0.26	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.27	< 0.28	< 0.27	< 0.27	< 0.23	< 0.25	< 0.26	< 0.27	< 0.28	< 0.28	< 0.28
Naphthalene	1,000		NA	< 0.28	< 0.25	< 0.26	< 0.26	0.26	< 0.26	< 0.26	< 0.27	< 0.28	< 0.29	< 0.28	< 0.27	< 0.28	< 0.27	< 0.27	< 0.23	< 0.25	< 0.26	< 0.27	< 0.28	< 0.28	< 0.28
Phenanthrene	1,000		NA	<0.28	<0.25	<0.26	0.3	0.26	2.3	<0.26	3.8	0.42	<0.29	0.8	<0.27	<0.28	<0.27	0.81	<0.23	<0.25	<0.26	<0.27	<0.28	<0.28	<0.28
Pyrene	1,000		NA	<0.28	< 0.25	<0.26	0.64	0.26	3.2	<0.26	3.8	0.6	< 0.29	0.99	<0.27	0.45	<0.27	1.1	<0.23	<0.25	<0.26	< 0.27	<0.28	<0.28	<0.28
							0.3																		
SPLP PAHs 8270D (ug/L)							0.64																		
Acenaphthylene	NA	NA	420	-	-	-	-	-	1.4	-	< 0.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	NA	NA	2,000	-	-	-	-	-	0.68	-	< 0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	NA	NA	0.06	-	-	-	-	-	0.06	-	< 0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	NA	NA	280	-	-	-	-	-	0.82	-	< 0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	NA	NA	280	-	-	-	-	-	1.7	-	< 0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	NA	NA	280	-	-	-	-	-	0.74	-	< 0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	NA	NA	200	-	-	-	-	-	3.7	-	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	NA	NA	200	-	-	-	-	-	0.60	-	< 0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CTDEEP RSRs- Connecticut Department of Energy and Environmental Protection Remediation Standard Regulations (February 16, 2021) and CTDEEP Additional Polluting Substances (September 20, 2018)

CT ETPH- Connecticut Department of Public Health Extractable Total Petroleum Hydrocarbons

NE- Not established / NA- Not Applicable

< xx indicates compound was not reported above

laboratory limits.

Only parameters reported above reporting limits are summarized above

Results presented in milligrams per kilogram (mg/kg)

PAHs- Polycyclic Aromatic Hydrocarbons

PCBs- Polychlorinated Biphenyls RES DEC-Residential Direct Exposure Criteria GA PMC- Pollutant Mobility Criteria in a GA area

Boxed values indicate exceedances of RES DEC

Bold values indicate exceedances of I/C DEC Gray shaded values indicate exceedance of GA PMC

PAH and Pesticide PMC compliance was demonstrated via SPLP analysis in accordance with CTDEEP RSRs PMC RES DEC Compliance for PAHs was demonstrated via 95% UCL in accordance with CTDEEP RSRs

Tighe&Bond

TABLE 3 Summary of Remediation Sample Analytical Data Mill Hill Elementary School Fairfield, Connecticut

Last Updated: 10/26/2021										Excavated								Exccavated	
Sample Name	C	TDEEP R	SR	MHS 412	MHS 413	MHS 415	MHS 416	MHS 418	MHS 420	MHS 422	MHS 424	MHS 426	MHS 428	MHS 430	MHS 432	MHS 433	MHS 501	MHB 502	MHB 503
Sample Depth		Criteria	1	1.5 ft	1.5 ft	0.5 ft	1 ft	0.5 ft	0.5 ft	0.5 ft	18 in	18 in	0.5 ft	0.5 ft	0.5 ft	0.5 ft	0 - 2 ft	3 ft	4 ft
Sample Date				7/1/2021	7/1/2021	7/1/2021	7/1/2021	7/1/2021	7/1/2021	7/1/2021	7/2/2021	7/2/2021	7/2/2021	7/2/2021	7/2/2021	7/2/2021	7/15/2021	7/15/2021	7/20/21
Lab Sample ID	RES	GA	GWPC	CI66835	CI66836	CI66838	CI66839	CI66841	CI66843	CI66845	CI67320	CI67322	CI67325	CI67327	CI67329	CI67330	CI75185	CI75186	CI77255
Lab Report ID	DEC	PMC		GCI66823	GCI67319		GCI67319	GCI67319	GCI67319	GCI67319	GCI75185	GCI75185	GCI77255						
CTETPH 8015D (mg/Kg)	500	500	NA	<57	<57	<57	<57	<58	<57	<59	<330	<310	<120	<63	<57	<57	-	-	-
Metals 6010D (mg/Kg)																			
Arsenic	10	NA	NA	5.46	3.27	4.02	3.71	2.8	3.83	3.48	6.97	6.86	3.87	5.33	3.54	2.73	-	-	-
Lead	400	NA	NA	17.6	8.45	11.4	12.5	6.81	11.5	14.8	25.6	26.5	15.4	22	12.7	9.55	-	-	-
SPLP Metals 6010D (mg/L)																			
Arsenic	NA	0.05	NA	< 0.004	-	-	-	-	-	-	< 0.004	< 0.004	-	< 0.004	-	-			
Lead	NA	0.015	NA	<0.010	-	-	-	-	-	-	< 0.010	< 0.010	-	<0.010	-	-			
Pesticides 8081B (mg/Kg)																			
DDE, 4,4-	NE	NE	NA	< 0.00075	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0016	< 0.0018	0.0049	< 0.0021	< 0.0017	< 0.0015	< 0.0015	-	-	-
DDT, 4,4-	NE	NE	NA	< 0.00075	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0016	< 0.0018	0.0078	< 0.0021	< 0.0017	< 0.0015	< 0.0015	-	-	-
DDT (Total)	1.8	0.003	NA	ND	ND	0.0127	ND	ND	ND	ND	-	-	-						
SPLP Pesticides 8081B (ug/L)	NA	NA	Varies	-	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-
PCBs 8082A (mg/Kg)																			
PCBs (Total )	1	NA	NA	< 0.19	< 0.19	<0.18	<0.19	<0.19	< 0.19	<0.2	<0.22	<0.2	<0.26	<0.21	<0.19	< 0.19	-	-	-
PAHs 8270D (mg/Kg)																			
Acenaphthene	1,000	8.4	NA	< 0.26	< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	0.39	< 0.31	< 0.28	< 0.36	< 0.3	< 0.26	< 0.27	< 0.280	< 0.270	< 0.270
Acenaphthylene	1,000	8.4	NA	< 0.26	< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	2.7	0.33	< 0.28	< 0.36	< 0.3	< 0.26	< 0.27	< 0.280	1.6	< 0.270
Anthracene	1,000		NA	< 0.26	< 0.26	< 0.26	<0.27	< 0.27	<0.27	2.2	< 0.31	< 0.28	< 0.36	< 0.3	<0.26	< 0.27	< 0.280	2.1	<0.270
Benzo(a)anthracene	1	1	NA	< 0.26	< 0.26	< 0.26	<0.27	<0.27	<0.27	4.3	0.57	0.48	< 0.36	< 0.3	0.29	<0.27	<0.280	4.3	<0.270
Benzo(a)pyrene	1	1	NA	< 0.26	< 0.26	< 0.26	<0.27	< 0.27	< 0.27	4.3	0.7	0.57	< 0.36	< 0.3	0.28	< 0.27	< 0.280	3.3	<0.270
Benzo(b)fluoranthene	1 8.4	1 1	NA <i>NA</i>	<0.26 <0.26	<0.26 <0.26	<0.26 <0.26	<0.27 <0.27	<0.27 <0.27	<0.27 <0.27	3.4 2.8	0.64 0.41	0.54 0.37	<0.36 <0.36	<0.3 <0.3	<0.26 <0.26	<0.27 <0.27	<0.280 <0.280	3.8 2.7	<0.270 <0.270
Benzo(g,h,i)perylene Benzo(k)fluoranthene	8.4	1	NA NA	<0.26	<0.26	<0.26	<0.27	<0.27	<0.27	3	0.41	0.57	<0.36	<0.3	<0.26	<0.27	<0.280	2.6	<0.270
Chrysene	84	1	NA	<0.26	<0.26	<0.26	<0.27	<0.27	<0.27	4.4	0.63	0.55	< 0.36	<0.3	0.27	<0.27	<0.280	3.5	<0.270
Dibenz(a,h)anthracene	1	1	NA	<0.26	<0.26	<0.26	<0.27	<0.27	<0.27	0.64	< 0.31	<0.28	< 0.36	<0.3	<0.26	<0.27	< 0.280	0.54	<0.270
Fluoranthene	1,000	5.6	NA	<0.26	<0.26	<0.26	<0.27	<0.27	<0.27	13	1.1	0.95	< 0.36	0.37	0.68	0.52	<0.280	16	<0.270
Fluorene	1,000	5.6	NA	< 0.26	< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	1.7	< 0.31	< 0.28	< 0.36	< 0.3	< 0.26	< 0.27	< 0.280	1.3	< 0.270
Indeno(1,2,3-cd)pyrene	1	1	NA	< 0.26	< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	2.8	0.46	0.42	< 0.36	< 0.3	< 0.26	< 0.27	< 0.280	3.1	< 0.270
Methylnaphthalene, 2-	270	0.56	NA	< 0.26	< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	0.58	< 0.31	< 0.28	< 0.36	< 0.3	< 0.26	< 0.27	< 0.280	< 0.270	< 0.270
Naphthalene	1,000	5.6	NA	< 0.26	< 0.26	< 0.26	< 0.27	< 0.27	< 0.27	0.68	< 0.31	< 0.28	< 0.36	< 0.3	< 0.26	< 0.27	< 0.280	0.3	< 0.270
Phenanthrene	1,000	4	NA	< 0.26	< 0.26	<0.26	< 0.27	< 0.27	<0.27	13	0.44	0.38	< 0.36	< 0.3	0.43	0.31	< 0.280	14	<0.270
Pyrene	1,000	4	NA	<0.26	<0.26	<0.26	<0.27	<0.27	<0.27	12	1.1	0.96	<0.36	0.32	0.57	0.44	<0.280	12	<0.270
SPLP PAHs 8270D (ug/L)																			
Acenaphthylene	NA	NA	420	-	-	-	-	-	-	< 0.32	-	-	-	-	-	-	-	-	-
Anthracene	NA	NA	2,000	-	-	-	-	-	-	< 0.53	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	NA	NA	0.06	-	-	-	-	-	-	< 0.05	-	-	-	-	-	-	-	-	-
Fluoranthene	NA	NA	280	-	-	-	-	-	-	< 0.53	-	-	-	-	-	-	-	-	-
Fluorene	NA	NA	280	-	-	-	-	-	-	< 0.53	-	-	-	-	-	-	-	-	-
Naphthalene Phenanthrene	NA NA	NA NA	280 200	_	-	-	-	-	-	<0.53 <0.06	-	-	-	-	-	-	-	-	-
Pyrene	NA NA	NA NA	200	1 -	_	-	-	-	-	< 0.06	_	-	-	-	-	_	-	_	-
1 71 0110	INA	11/7	200	_						~0.JJ		-							

CTDEEP RSRs- Connecticut Department of Energy and Environmental Protection Remediation Standard Regulations (February 16, 2021) and CTDEEP Additional Polluting Substances (September 20, 2018)

CT ETPH- Connecticut Department of Public Health

Extractable Total Petroleum Hydrocarbons

NE- Not established / NA- Not Applicable

< xx indicates compound was not reported above laboratory limits.

Only parameters reported above reporting limits are summarized above

Results presented in milligrams per kilogram (mg/kg)

PAHS- Polycyclic Aromatic Hydrocarbons
PCBS- Polychlorinated Biphenyls
RES DEC-Residential Direct Exposure Criteria

GA PMC- Pollutant Mobility Criteria in a GA area

Boxed values indicate exceedances of RES DEC

Bold values indicate exceedances of I/C DEC Gray shaded values indicate exceedance of GA PMC

PAH and Pesticide PMC compliance was demonstrated via SPLP analysis in accordance with CTDEEP RSRs PMC RES DEC Compliance for PAHs was demonstrated via 95% UCL in accordance with CTDEEP RSRs

**APPENDIX C** 



Client: Town of Fairfield Job Number: 15-0439

Mill Hill Elementary School

Site: 635 Mill Hill Terrace, Southport (Fairfield), CT

Photograph No.: 1 Date: 8/20/2019 Direction Taken: Facing Easterly

**Description:** Pre-Excavation Conditions - North Side of ADA Sidewalk (MILL HILL S2 Location)



Photograph No.: 2 Date: 8/20/2019 Direction Taken: Facing Northerly

**Description:** Pre-Excavation Conditions - ADA Sidewalk





Client: Town of Fairfield Job Number: 15-0439

Mill Hill Elementary School

Site: 635 Mill Hill Terrace, Southport (Fairfield), CT

Photograph No.: 3 Date: 4/15/2021 Direction Taken: Not Applicable

**Description:** Test Pit Cross-Section (Julian Fill layer in upper foot)



Photograph No.: 4 Date: 6/25/2021 Direction Taken: Facing Westerly

**Description:** Pre-Excavation Conditions—ADA Sidewalk (area used as lay down yard )





Client: Town of Fairfield Job Number: 15-0439

Mill Hill Elementary School

Site: 635 Mill Hill Terrace, Southport (Fairfield), CT

Photograph No.: 5 Date: 6/30/2021 Direction Taken: Facing Southwesterly

**Description:** Excavation in Progress (bedrock encountered)



Photograph No.: 6 Date: 6/30/2021 Direction Taken: Facing Easterly

**Description:** Post Excavation Conditions (east portion of remedial area)





Client: Town of Fairfield Job Number: 15-0439

Mill Hill Elementary School

Site: 635 Mill Hill Terrace, Southport (Fairfield), CT

Photograph No.: 7 Date: 6/30/2021 Direction Taken: Facing Southwesterly

**Description:** Excavation in Progress (west portion of remedial area)



Photograph No.: 8 Date: 7/2/2021 Direction Taken: Not Applicable

**Description:** Direct Loading





**Client:** Town of Fairfield **Job Number:** 15-0439

Mill Hill Elementary School **Site:** 635 Mill Hill Terrace, Southport (Fairfield), CT

Photograph No.: 9 **Date:** 7/20/2021 **Direction Taken:** Not Applicable

Description: Excavated Julian Fill Material Close Up



Photograph No.: 10 **Date:** 7/2/2021 **Direction Taken:** Not Applicable

Description: Aerial Photograph of Excavation Area



**APPENDIX D** 



Friday, August 23, 2019

Attn: Mr. Brian Sirowich Tighe & Bond 213 Court St, Suite 1100 Middletown, CT 06457

Project ID: 150439020- MILL HILL

**SDG ID:** GCD88972

Sample ID#s: CD88972 - CD88974

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis/Shiller

**Laboratory Director** 

NELAC - #NY11301 CT Lab Registration #PH-0618 MA Lab Registration #M-CT007 ME Lab Registration #CT-007 NH Lab Registration #213693-A,B NY Lab Registration #11301 PA Lab Registration #68-03530 RI Lab Registration #63 UT Lab Registration #CT00007 VT Lab Registration #VT11301

NJ Lab Registration #CT-003



## Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

August 23, 2019

SDG I.D.: GCD88972

Project ID: 150439020- MILL HILL

Client Id	Lab Id	Matrix
MILL HILL S1	CD88972	SOIL
MILL HILL S2	CD88973	SOIL
MILL HILL S3	CD88974	SOIL



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

August 23, 2019

FOR: Attn: Mr. Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:08/20/1913:15Location Code:TIGHEReceived by:B08/20/1917:57

Rush Request: 24 Hour Analyzed by: see "By" below

P.O.#:

<u>Laboratory Data</u>

SDG ID: GCD88972 Phoenix ID: CD88972

Project ID: 150439020- MILL HILL

Client ID: MILL HILL S1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference	
Arsenic	3.22	0.82	mg/Kg	1	08/21/19	CPP	SW6010D	_
Lead	14.8	0.41	mg/Kg	1	08/21/19	CPP	SW6010D	
Percent Solid	75		%		08/20/19	VT	SW846-%Solid	
Soil Extraction SVOA PAH	Completed				08/20/19	NT/LV	' SW3545A	
Extraction of CT ETPH	Completed				08/20/19	GG/VL	SW3545A	
Extraction for PCB	Completed				08/20/19	BX/KL/V	T SW3540C	
Total Metals Digest	Completed				08/20/19	JJ/AG	SW3050B	
Asbestos	ND	0	%		08/21/19	*	NYSDOH 198.1 PLM	С
TPH by GC (Extractable	e Products	s)						
Ext. Petroleum H.C. (C9-C36)	ND	95	mg/Kg	1	08/21/19	JRB	CTETPH 8015D	
Identification	ND		mg/Kg	1	08/21/19	JRB	CTETPH 8015D	
QA/QC Surrogates								
% n-Pentacosane	56		%	1	08/21/19	JRB	50 - 150 %	
PCB (Soxhlet SW35400	<u>C)</u>							
PCB-1016	 ND	440	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1221	ND	440	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1232	ND	440	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1242	ND	440	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1248	ND	440	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1254	ND	440	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1260	ND	440	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1262	ND	440	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1268	ND	440	ug/Kg	10	08/21/19	SC	SW8082A	
QA/QC Surrogates								
% DCBP	86		%	10	08/21/19	SC	30 - 150 %	
% DCBP (Confirmation)	78		%	10	08/21/19	SC	30 - 150 %	

Project ID: 150439020- MILL HILL Phoenix I.D.: CD88972

Client ID: MILL HILL S1

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% TCMX	91		%	10	08/21/19	SC	30 - 150 %
% TCMX (Confirmation)	89		%	10	08/21/19	SC	30 - 150 %
Polynuclear Aromatic	HC_						
2-Methylnaphthalene	2400	1500	ug/Kg	5	08/21/19	WB	SW8270D
Acenaphthene	ND	1500	ug/Kg	5	08/21/19	WB	SW8270D
Acenaphthylene	6300	1500	ug/Kg	5	08/21/19	WB	SW8270D
Anthracene	6200	1500	ug/Kg	5	08/21/19	WB	SW8270D
Benz(a)anthracene	14000	1500	ug/Kg	5	08/21/19	WB	SW8270D
Benzo(a)pyrene	13000	1500	ug/Kg	5	08/21/19	WB	SW8270D
Benzo(b)fluoranthene	11000	1500	ug/Kg	5	08/21/19	WB	SW8270D
Benzo(ghi)perylene	8700	1500	ug/Kg	5	08/21/19	WB	SW8270D
Benzo(k)fluoranthene	10000	1500	ug/Kg	5	08/21/19	WB	SW8270D
Chrysene	14000	1500	ug/Kg	5	08/21/19	WB	SW8270D
Dibenz(a,h)anthracene	2300	1500	ug/Kg	5	08/21/19	WB	SW8270D
Fluoranthene	27000	1500	ug/Kg	5	08/21/19	WB	SW8270D
Fluorene	5400	1500	ug/Kg	5	08/21/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	9400	1500	ug/Kg	5	08/21/19	WB	SW8270D
Naphthalene	3600	1500	ug/Kg	5	08/21/19	WB	SW8270D
Phenanthrene	26000	1500	ug/Kg	5	08/21/19	WB	SW8270D
Pyrene	24000	1500	ug/Kg	5	08/21/19	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl (5x)	61		%	5	08/21/19	WB	30 - 130 %
% Nitrobenzene-d5 (5x)	53		%	5	08/21/19	WB	30 - 130 %
% Terphenyl-d14 (5x)	57		%	5	08/21/19	WB	30 - 130 %

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

## Comments:

#### Semi-Volatile Comment:

Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

Asbestos (NYSDOH 198.1 PLM) was analyzed by CT certified lab #PH-0622.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

August 23, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

August 23, 2019

FOR: Attn: Mr. Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:08/20/1913:40Location Code:TIGHEReceived by:B08/20/1917:57

Rush Request: 24 Hour Analyzed by: see "By" below

P.O.#:

<u>Laboratory Data</u>

SDG ID: GCD88972 Phoenix ID: CD88973

Project ID: 150439020- MILL HILL

Client ID: MILL HILL S2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference	
Arsenic	7.60	0.71	mg/Kg	1	08/21/19	CPP	SW6010D	
Lead	110	0.36	mg/Kg	1	08/21/19	CPP	SW6010D	
Percent Solid	89		%		08/20/19	VT	SW846-%Solid	
Soil Extraction SVOA PAH	Completed				08/20/19	NT/LV	SW3545A	
Extraction of CT ETPH	Completed				08/20/19	GG/VL	SW3545A	
Extraction for PCB	Completed				08/20/19	BX/KL/V	⊤SW3540C	
Total Metals Digest	Completed				08/20/19	JJ/AG	SW3050B	
Asbestos	ND	0	%		08/21/19	*	NYSDOH 198.1 PLM	С
TPH by GC (Extractable	e Products	<u>s)</u>						
Ext. Petroleum H.C. (C9-C36)	180	56	mg/Kg	1	08/21/19	JRB	CTETPH 8015D	
Identification	**		mg/Kg	1	08/21/19	JRB	CTETPH 8015D	
QA/QC Surrogates								
% n-Pentacosane	112		%	1	08/21/19	JRB	50 - 150 %	
PCB (Soxhlet SW3540	C)							
PCB-1016	ND	370	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1221	ND	370	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1232	ND	370	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1242	ND	370	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1248	ND	370	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1254	ND	370	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1260	ND	370	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1262	ND	370	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1268	ND	370	ug/Kg	10	08/21/19	SC	SW8082A	
QA/QC Surrogates								
% DCBP	87		%	10	08/21/19	SC	30 - 150 %	
% DCBP (Confirmation)	68		%	10	08/21/19	SC	30 - 150 %	

Project ID: 150439020- MILL HILL Phoenix I.D.: CD88973

Client ID: MILL HILL S2

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% TCMX	87		%	10	08/21/19	SC	30 - 150 %
% TCMX (Confirmation)	82		%	10	08/21/19	SC	30 - 150 %
Polynuclear Aromatic	HC_						
2-Methylnaphthalene	ND	560	ug/Kg	5	08/21/19	WB	SW8270D
Acenaphthene	ND	1300	ug/Kg	5	08/21/19	WB	SW8270D
Acenaphthylene	2500	1300	ug/Kg	5	08/21/19	WB	SW8270D
Anthracene	2800	1300	ug/Kg	5	08/21/19	WB	SW8270D
Benz(a)anthracene	7700	1300	ug/Kg	5	08/21/19	WB	SW8270D
Benzo(a)pyrene	7700	1300	ug/Kg	5	08/21/19	WB	SW8270D
Benzo(b)fluoranthene	6100	1300	ug/Kg	5	08/21/19	WB	SW8270D
Benzo(ghi)perylene	4600	1300	ug/Kg	5	08/21/19	WB	SW8270D
Benzo(k)fluoranthene	5700	1300	ug/Kg	5	08/21/19	WB	SW8270D
Chrysene	8200	1300	ug/Kg	5	08/21/19	WB	SW8270D
Dibenz(a,h)anthracene	1100	1000	ug/Kg	5	08/21/19	WB	SW8270D
Fluoranthene	14000	1300	ug/Kg	5	08/21/19	WB	SW8270D
Fluorene	1700	1300	ug/Kg	5	08/21/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	4900	1300	ug/Kg	5	08/21/19	WB	SW8270D
Naphthalene	ND	1300	ug/Kg	5	08/21/19	WB	SW8270D
Phenanthrene	12000	1300	ug/Kg	5	08/21/19	WB	SW8270D
Pyrene	13000	1300	ug/Kg	5	08/21/19	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl (5x)	73		%	5	08/21/19	WB	30 - 130 %
% Nitrobenzene-d5 (5x)	64		%	5	08/21/19	WB	30 - 130 %
% Terphenyl-d14 (5x)	60		%	5	08/21/19	WB	30 - 130 %

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

## Comments:

#### Semi-Volatile Comment:

Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

#### **TPH Comment:**

\*\*Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

Asbestos (NYSDOH 198.1 PLM) was analyzed by CT certified lab #PH-0622.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

August 23 2019

Reviewed and Released by: Rashmi Makol, Project Manager



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

August 23, 2019

FOR: Attn: Mr. Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:08/20/1913:50Location Code:TIGHEReceived by:B08/20/1917:57

Rush Request: 24 Hour Analyzed by: see "By" below

P.O.#:

**Laboratory Data** 

SDG ID: GCD88972

Phoenix ID: CD88974

Project ID: 150439020- MILL HILL

Client ID: MILL HILL S3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference	
		-						—
Arsenic	8.45	0.70	mg/Kg	1	08/21/19	CPP	SW6010D	
Lead	34.0	0.35	mg/Kg	1	08/21/19	CPP	SW6010D	
Percent Solid	93		%		08/20/19	VT	SW846-%Solid	
Soil Extraction SVOA PAH	Completed				08/20/19		SW3545A	
Extraction of CT ETPH	Completed				08/20/19		SW3545A	
Extraction for PCB	Completed				08/20/19		TSW3540C	
Total Metals Digest	Completed				08/20/19		SW3050B	_
Asbestos	ND	0	%		08/21/19	*	NYSDOH 198.1 PLM	С
TPH by GC (Extractable	e Products	s)						
Ext. Petroleum H.C. (C9-C36)	ND	53	mg/Kg	1	08/21/19	JRB	CTETPH 8015D	
Identification	ND		mg/Kg	1	08/21/19	JRB	CTETPH 8015D	
QA/QC Surrogates								
% n-Pentacosane	83		%	1	08/21/19	JRB	50 - 150 %	
PCB (Soxhlet SW35400	C)							
PCB-1016	ND	350	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1221	ND	350	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1232	ND	350	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1242	ND	350	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1248	ND	350	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1254	ND	350	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1260	ND	350	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1262	ND	350	ug/Kg	10	08/21/19	SC	SW8082A	
PCB-1268	ND	350	ug/Kg	10	08/21/19	SC	SW8082A	
QA/QC Surrogates								
% DCBP	102		%	10	08/21/19	SC	30 - 150 %	
% DCBP (Confirmation)	83		%	10	08/21/19	SC	30 - 150 %	

Project ID: 150439020- MILL HILL Phoenix I.D.: CD88974

Client ID: MILL HILL S3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
% TCMX	102		%	10	08/21/19	SC	30 - 150 %
% TCMX (Confirmation)	98		%	10	08/21/19	SC	30 - 150 %
% TOWA (Committation)	90		70	10	00/21/19	30	30 - 130 /6
Polynuclear Aromatic	: HC						
2-Methylnaphthalene	ND	240	ug/Kg	1	08/21/19	WB	SW8270D
Acenaphthene	ND	240	ug/Kg	1	08/21/19	WB	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	08/21/19	WB	SW8270D
Anthracene	ND	240	ug/Kg	1	08/21/19	WB	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	08/21/19	WB	SW8270D
Benzo(a)pyrene	ND	240	ug/Kg	1	08/21/19	WB	SW8270D
Benzo(b)fluoranthene	ND	240	ug/Kg	1	08/21/19	WB	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	08/21/19	WB	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	08/21/19	WB	SW8270D
Chrysene	ND	240	ug/Kg	1	08/21/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	08/21/19	WB	SW8270D
Fluoranthene	370	240	ug/Kg	1	08/21/19	WB	SW8270D
Fluorene	ND	240	ug/Kg	1	08/21/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	08/21/19	WB	SW8270D
Naphthalene	ND	240	ug/Kg	1	08/21/19	WB	SW8270D
Phenanthrene	ND	240	ug/Kg	1	08/21/19	WB	SW8270D
Pyrene	340	240	ug/Kg	1	08/21/19	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	08/21/19	WB	30 - 130 %
% Nitrobenzene-d5	71		%	1	08/21/19	WB	30 - 130 %
% Terphenyl-d14	70		%	1	08/21/19	WB	30 - 130 %

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

## Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

Asbestos (NYSDOH 198.1 PLM) was analyzed by CT certified lab #PH-0622.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

August 23, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## QA/QC Report

August 23, 2019

## QA/QC Data

SDG I.D.: GCD88972

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 493259 (mg/kg), ICP Metals - Soil	QC Sam	ple No	: CD8897	3 (CD88	972, CI	D88973	8, CD889	974)					
Arsenic Lead	BRL BRL	0.67 0.33	7.60 110	8.74 127	14.0 14.3	94.1 91.5	96.5 93.2	2.5 1.8	88.6 98.5			75 - 125 75 - 125	30 30



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## QA/QC Report

August 23, 2019

## QA/QC Data

SDG I.D.: GCD88972

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 493254 (mg/Kg),	OC Sam	nnle No: CD88028 (CD88972) (	`D8897	3 CD88	974)						
TPH by GC (Extractable F			JD0077.	J, CD00	774)						
Ext. Petroleum H.C. (C9-C36)	ND	50	86	103	18.0	109	119	8.8	60 - 120	30	
% n-Pentacosane	41	%	57	72	23.3	84	85	1.2	50 - 150		s
Comment:	71	70	37	12	25.5	04	03	1.2	30 - 130	30	5
Additional surrogate criteria: LCS a	accentan	ce range is 60-120% MS acceptance	re ranne	50-150%	S The F	TPH/DR	PO LOS E	nas heel	า		
normalized based on the alkane ca		orango is ou 120% mo acceptant	oo rango	00 1007	J. 1110 L		.0 200 1	143 800			
QA/QC Batch 493257 (ug/Kg), 0	C Sam	ple No: CD88974 10X (CD8897	72, CD8	8973, C	D88974	l)					
Polychlorinated Biphenyls	- Soil										
PCB-1016	ND	170	70	72	2.8	103	83	21.5	40 - 140	30	
PCB-1221	ND	170							40 - 140	30	
PCB-1232	ND	170							40 - 140	30	
PCB-1242	ND	170							40 - 140	30	
PCB-1248	ND	170							40 - 140	30	
PCB-1254	ND	170							40 - 140	30	
PCB-1260	ND	170	69	82	17.2	109	95	13.7	40 - 140	30	
PCB-1262	ND	170							40 - 140	30	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	86	%	72	80	10.5	99	92	7.3	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	86	%	72	60	18.2	70	66	5.9	30 - 150	30	
% TCMX (Surrogate Rec)	82	%	73	73	0.0	97	77	23.0	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	82	%	73	66	10.1	83	66	22.8	30 - 150	30	
QA/QC Batch 493248 (ug/kg), C	C Samp	ole No: CD88023 (CD88972, C	D88973	, CD889	74)						
Polynuclear Aromatic HC	- Soil										
2-Methylnaphthalene	ND	230	67	61	9.4	62	66	6.3	30 - 130	30	
Acenaphthene	ND	230	77	66	15.4	72	73	1.4	30 - 130	30	
Acenaphthylene	ND	230	76	67	12.6	73	74	1.4	30 - 130	30	
Anthracene	ND	230	76	68	11.1	75	74	1.3	30 - 130	30	
Benz(a)anthracene	ND	230	80	72	10.5	82	82	0.0	30 - 130	30	
Benzo(a)pyrene	ND	230	78	71	9.4	79	80	1.3	30 - 130	30	
Benzo(b)fluoranthene	ND	230	83	75	10.1	80	81	1.2	30 - 130	30	
Benzo(ghi)perylene	ND	230	74	58	24.2	63	62	1.6	30 - 130	30	
Benzo(k)fluoranthene	ND	230	78	74	5.3	84	86	2.4	30 - 130	30	
Chrysene	ND	230	80	72	10.5	82	83	1.2	30 - 130	30	
Dibenz(a,h)anthracene	ND	230	82	64	24.7	71	71	0.0	30 - 130	30	
Fluoranthene	ND	230	77	68	12.4	78	78	0.0	30 - 130	30	
Fluorene	ND	230	77	67	13.9	75	74	1.3	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	83	64	25.9	71	70	1.4	30 - 130	30	
Naphthalene	ND	230	62	55	12.0	56	62	10.2	30 - 130	30	
Phenanthrene	ND	230	76	66	14.1	76	78	2.6	30 - 130	30	
Pyrene	ND	230	77	68	12.4	77	78	1.3	30 - 130	30	
% 2-Fluorobiphenyl	72	%	71	61	15.2	65	67	3.0	30 - 130	30	

## QA/QC Data

Parameter	Blank	BIk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Nitrobenzene-d5	67	%	68	60	12.5	62	66	6.3	30 - 130	30
% Terphenyl-d14	68	%	69	61	12.3	67	66	1.5	30 - 130	30
Comment:										
Additional 0270 oritoria, 20	0/ of oomen arms do						100/ //	ما ما ما		

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director

SDG I.D.: GCD88972

August 23, 2019

s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

Friday, August 23, 2019

Criteria: CT: GAM, RC

## Sample Criteria Exceedances Report GCD88972 - TIGHE

State: CT

State:	CT						RL	Analysis
SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	Criteria	Units
CD88972	\$8100SMR	Benzo(ghi)perylene	CT / RSR DEC RES (mg/kg) / APS Organics	8700	1500	8400	8400	ug/Kg
CD88972	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	9400	1500	1000	1000	ug/Kg
CD88972	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC RES (mg/kg) / APS Organics	2300	1500	1000	1000	ug/Kg
CD88972	\$8100SMR	Benzo(k)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	10000	1500	8400	8400	ug/Kg
CD88972	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	11000	1500	1000	1000	ug/Kg
CD88972	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	13000	1500	1000	1000	ug/Kg
CD88972	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	14000	1500	1000	1000	ug/Kg
CD88972	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	9400	1500	1000	1000	ug/Kg
CD88972	\$8100SMR	2-Methylnaphthalene	CT / RSR GA,GAA (mg/kg) / APS Organics	2400	1500	560	560	ug/Kg
CD88972	\$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	14000	1500	1000	1000	ug/Kg
CD88972	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR GA,GAA (mg/kg) / APS Organics	2300	1500	1000	1000	ug/Kg
CD88972	\$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	8700	1500	1000	1000	ug/Kg
CD88972	\$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	13000	1500	1000	1000	ug/Kg
CD88972	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	11000	1500	1000	1000	ug/Kg
CD88972	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	10000	1500	1000	1000	ug/Kg
CD88972	\$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	14000	1500	1000	1000	ug/Kg
CD88972	\$8100SMR	Fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	27000	1500	5600	5600	ug/Kg
CD88972	\$8100SMR	Pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	24000	1500	4000	4000	ug/Kg
CD88972	\$8100SMR	Phenanthrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	26000	1500	4000	4000	ug/Kg
CD88973	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	4900	1300	1000	1000	ug/Kg
CD88973	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC RES (mg/kg) / APS Organics	1100	1000	1000	1000	ug/Kg
CD88973	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	7700	1300	1000	1000	ug/Kg
CD88973	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	7700	1300	1000	1000	ug/Kg
CD88973	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	6100	1300	1000	1000	ug/Kg
CD88973	\$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	4600	1300	1000	1000	ug/Kg
CD88973	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	4900	1300	1000	1000	ug/Kg
CD88973	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR GA,GAA (mg/kg) / APS Organics	1100	1000	1000	1000	ug/Kg
CD88973	\$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	8200	1300	1000	1000	ug/Kg
CD88973	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	6100	1300	1000	1000	ug/Kg
CD88973	\$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	7700	1300	1000	1000	ug/Kg
CD88973	\$8100SMR	Fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	14000	1300	5600	5600	ug/Kg
CD88973	\$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	7700	1300	1000	1000	ug/Kg
CD88973	\$8100SMR	Pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	13000	1300	4000	4000	ug/Kg
CD88973	\$8100SMR	Phenanthrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	12000	1300	4000	4000	ug/Kg
CD88973	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	5700	1300	1000	1000	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



# REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. Client: Tighe & Bond

Project Location: 150439020- MILL HILL Project Number:

Laboratory Sample ID(s): CD88972-CD88974 Sampling Date(s): 8/20/2019

*List RCP Methods Used (e.g., 8260, 8270, et cetera)* 6010, 8082, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes □ No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes □ No
1B	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	✓ Yes □ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	✓ Yes □ No □ NA
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	✓ Yes □ No
5	a) Were reporting limits specified or referenced on the chain-of-custody?	✓ Yes □ No
	b) Were these reporting limits met?	✓ Yes □ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes <b>☑</b> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	✓ Yes □ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

, the undersigned, attest under the pains and penalties of perjury that, to the best of my moving the and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.
Authorized Signature: Roshini Wakol Position: Project Manager
Printed Name: Rashmi Makol Date: Friday, August 23, 2019
Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



## RCP Certification Report

August 23, 2019 SDG I.D.: GCD88972

## SDG Comments

Metals Analysis:

The client requested a shorter list of elements than the 6010 RCP list. Only Arsenic and Lead are reported as requested on the chain of custody.

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

## **ETPH Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:

## AU-FID1 08/20/19-1

Jeff Bucko, Chemist 08/20/19

CD88973

The initial calibration (ETPH808I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (820A003\_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

## AU-FID11 08/21/19-1

Jeff Bucko, Chemist 08/21/19

CD88972

The initial calibration (ETPH807I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (821A003\_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

## AU-XL1 08/21/19-1

Jeff Bucko, Chemist 08/21/19

CD88974

The initial calibration (ETPH805I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (821A003\_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

## QC (Batch Specific):

## Batch 493254 (CD88028)

CD88972, CD88973, CD88974

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

## ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

#### Instrument:

ARCOS 08/20/19 08:03

Cindy Pearce, Chemist 08/20/19

CD88972, CD88973, CD88974

Additional criteria for CCV and ICSAB:



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



## **Certification Report**

August 23, 2019 SDG I.D.: GCD88972

## ICP Metals Narration

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

## QC (Site Specific):

### Batch 493259 (CD88973)

CD88972, CD88973, CD88974

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

## **PCB Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:

#### AU-ECD29 08/21/19-1

Saadia Chudary, Chemist 08/21/19

CD88972

The initial calibration (PC703Al) RSD for the compound list was less than 20% except for the following compounds: None. The initial calibration (PC703Bl) RSD for the compound list was less than 20% except for the following compounds: None. The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

#### AU-ECD5 08/21/19-1

Saadia Chudary, Chemist 08/21/19

CD88973, CD88974

The initial calibration (PC813Al) RSD for the compound list was less than 20% except for the following compounds: None. The initial calibration (PC813Bl) RSD for the compound list was less than 20% except for the following compounds: None. The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

## QC (Site Specific):

## Batch 493257 (CD88974)

CD88972, CD88973, CD88974

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

## SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



## **RCP Certification Report**

August 23, 2019 SDG I.D.: GCD88972

#### SVOA Narration

#### CHEM07 08/20/19-2

Matt Richard, Chemist 08/20/19

CD88972, CD88973, CD88974

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM07/7\_SPLIT\_0812):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/0820 31-7 SPLIT 0812):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

## QC (Batch Specific):

## Batch 493248 (CD88023)

CD88972, CD88973, CD88974

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

## **Temperature Narration**

The samples were received at 4.6C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes No I I I I I I I I I I I I I I I I I I	The state of the s	Data-Format    Recel     PDF     GIS/Key     EQuIS     Equil Star     Full Data Package     Full Data Package     Full Data Package     Afhoenix Std Report     Other   Qata     Surcharge Applies
Coolant: Temp  Data Deliver  Fax: Phone: Chapt  Libby Tim Th	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MA    MCP Certification   GW-1   GW-2   GW-2   GW-3   S-1 GW-2   S-2 GW-3   S-2 GW-1   S-2 GW-2   S-2 GW-3   S-3 GW-1   S-3 GW-2   S-3 GW-3   S-3 GW-1   S-3 GW-2   S-3 GW-3   S-3 GW-1   S-3 GW-2   S-3 GW-3   GW-2   S-3 GW-3   GW-2   S-3 GW-3   GW-2   GW-3 GW-3   GW-3 GW-3   GW-3 GW-3 GW-3   GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3 GW-3
	Red Styles	Direct Exposure   CT
CHAIN OF CUSTODY RECORD  East Middle Tumpike, P.O. Box 370, Manchester, CT 06040  Email: info@phoenixlabs.com Fax (860) 645-0823  Client Services (860) 645-8726  Client Services (860) 645-8726	Analysis Request  X X X X X X X X X X X X X X X X X X X	
5 10 5 vi he	Sample Date Time Adatix Sampled Sample	Date: Time:   Time:   Admed
PHOHNIX Environmental Laboratories, Inc. Customer: Flaye & Bond Address: 213 Cort &	Sampler's Signature Sample - Information - Identification Signature Signature Signature Signature Super Signature Super	Religional Decial Requirements or Regulations:
PHO Environmen Customer: Address:	Sampler's Signature Code:  Matrix Code:  Matrix Code:  Matrix Code:  BWB-Drinking Water SE- BB-Bulk Laliquid X = SAMPLE #  SAMPLE #  SAMPLE #	Reliefuefie by:

EAS Batch No. 1906815

## Eastern Analytical Services, Inc.

**Bulk Sample Results** 

Client: Phoenix Environmental Laboratories, Inc.

Page 1 of 3

P.O. Box 370

Manchester, CT 06040

Date Collected: 08/20/2019 Collected By: Not Given

Date Received: 08/21/2019 08/21/2019 Date Analyzed: Analyzed By:

Signature:

George Htay

% Unidentified

30.0

Analytical Method: 40 CFR Part 763, Sub. E, App. E/NYS-DOH 198.1 (PLM)

NVLAP Lab Code: 101646-0 NYS Lab No. 10851

Sample ID Nu	mber	Cd88972	Cd88973	Cd88974	Cd88975
Layer Number					
Lab ID Numbe	er	2638983	2638984	2638985	2638986
Sample Location	on	Not Given	Not Given	Not Given	Not Given
Sample Descri	ption	Not Given	Not Given	Not Given	Not Given
Method of Qua	antification	Visual Estimation	Visual Estimation	Visual Estimation	Visual Estimation
Appearance	Layered	No	No	No	No
	Homogenous	No	No	No	No
	Fibrous	No	No	No	No
	Color	Black/Brown	Black/Brown/Gray	Brown/Gray	Black/Brown
Sample Treatm	nent	Homogenized	Homogenized	Homogenized	Homogenized
Asbestos	% Amosite	0.0	0.0	0.0	0.0
Content	% Chrysotile	0.0	0.0	0.0	0.0
	% Other	0.0	0.0	0.0	0.0
	% Total Asbestos	0.0	0.0	0.0	0.0
Other Fibrous	% Fibrous Glass	0.0	1.0	0.0	0.0
Materials	% Cellulose	0.0	2.0	3.0	2.0
Present	% Other	0.0	0.0	2.0 Synthetics	0.0
	% Unidentified	0.0	0.0	0.0	0.0
Non-Fibrous	% Silicates	65.0	65.0	65.0	70.0
Materials	% Carbonates	5.0	0.0	0.0	0.0
Present	% Other	0.0	0.0	0.0	0.0

Results Applicable To Those Items Tested. Report Cannot be Reproduced, Except Entirely, Without Written Approval of the Laboratory.

Liability Limited To Cost Of Analysis. This Report Must Not be Used by the Client to Claim Product Endorsement by NVLAP or Any Agency of the US Government.

These Results Can Not Be Used To Claim That NOB Items Tested Are Non-Asbestos Containing. Overall Lab Accuracy ± 17%. Samples received in acceptable condition unless otherwise noted.

AIHA Accreditation No. 100263 Rhode Island DOH No. AAL-072 Massachusetts DOL No. A A 000072 Connecticut DOH No. PH-0622 Maine DEP No. LA-024 Vermont DOH No. AL-70936

32.0

30.0

28.0

EAS Batch No. 1906815

## Eastern Analytical Services, Inc. **Bulk Sample Results**

Page 2 of 3

Client: Phoenix Environmental Laboratories, Inc.

P.O. Box 370

Manchester, CT 06040

Date Collected: 08/20/2019 Collected By: Not Given

Date Received: 08/21/2019 08/21/2019 Date Analyzed: Analyzed By:

Signature:

George Htay

% Unidentified

32.0

Analytical Method: 40 CFR Part 763, Sub. E, App. E/NYS-DOH 198.1 (PLM)

NVLAP Lab Code: 101646-0 NYS Lab No. 10851

Sample ID Nu	mber	Cd88976	Cd88977	Cd88978	Cd88979
Layer Number					
Lab ID Numbe	er	2638987	2638988	2638989	2638990
Sample Locati	on	Not Given	Not Given	Not Given	Not Given
Sample Descri	ption	Not Given	Not Given	Not Given	Not Given
Method of Qua	antification	Visual Estimation	Visual Estimation	Visual Estimation	Visual Estimation
Appearance	Layered	No	No	No	No
	Homogenous	No	No	No	No
	Fibrous	No	No	No	No
	Color	Black/Brown	Brown	Brown	Brown/Black
Sample Treatn	nent	Homogenized	Homogenized	Homogenized	Homogenized
Asbestos	% Amosite	0.0	0.0	0.0	0.0
Content	% Chrysotile	0.0	0.0	0.0	0.0
	% Other	0.0	0.0	0.0	0.0
	% Total Asbestos	0.0	0.0	0.0	0.0
Other Fibrous	% Fibrous Glass	1.0	1.0	0.0	1.0
Materials	% Cellulose	2.0	2.0	1.0	1.0
Present	% Other	0.0	2.0 Synthetics	2.0 Synthetics	0.0
	% Unidentified	0.0	0.0	0.0	0.0
Non-Fibrous	% Silicates	65.0	65.0	70.0	65.0
Materials	% Carbonates	0.0	0.0	0.0	0.0
Present	% Other	0.0	0.0	0.0	0.0

Results Applicable To Those Items Tested. Report Cannot be Reproduced, Except Entirely, Without Written Approval of the Laboratory.

Liability Limited To Cost Of Analysis. This Report Must Not be Used by the Client to Claim Product Endorsement by NVLAP or Any Agency of the US Government.

These Results Can Not Be Used To Claim That NOB Items Tested Are Non-Asbestos Containing. Overall Lab Accuracy ± 17%. Samples received in acceptable condition unless otherwise noted.

AIHA Accreditation No. 100263 Rhode Island DOH No. AAL-072 Massachusetts DOL No. A A 000072 Connecticut DOH No. PH-0622 Maine DEP No. LA-024 Vermont DOH No. AL-70936

30.0

27.0

33.0

EAS Batch No. 1906815

## **Eastern Analytical Services, Inc.**

**Bulk Sample Results** 

Client: Phoenix Environmental Laboratories, Inc.

P.O. Box 370

Manchester, CT 06040

Date Collected: 08/20/2019 Collected By: Not Given

Date Received: 08/21/2019 Date Analyzed: 08/21/2019 Analyzed By: George Htay

Analytical Method: 40 CFR Part 763, Sub. E, App. E/NYS-DOH 198.1 (PLM)

NVLAP Lab Code: 101646-0 NYS Lab No. 10851

Sample ID Number Cd88980

Layer Number

2638991 Not Given

Not Given

Visual Estimation Method of Quantification

Layered No Appearance

> Homogenous No

Color Brown/Black

Homogenized Sample Treatment

Asbestos % Amosite 0.0 Content % Chrysotile 0.0

% Other 0.0 % Total Asbestos 0.0

% Fibrous Glass 1.0

Other Fibrous Materials % Cellulose 1.0 % Other 0.0

% Unidentified

Non-Fibrous % Silicates 70.0 Materials % Carbonates 0.0 % Other 0.0

> % Unidentified 28.0

Results Applicable To Those Items Tested. Report Cannot be Reproduced, Except Entirely, Without Written Approval of the Laboratory. Liability Limited To Cost Of Analysis. This Report Must Not be Used by the Client to Claim Product Endorsement by NVLAP or Any Agency of the US Government. These Results Can Not Be Used To Claim That NOB Items Tested Are Non-Asbestos Containing. Overall Lab Accuracy ± 17%. Samples received in acceptable condition unless otherwise noted.

AIHA Accreditation No. 100263 Rhode Island DOH No. AAL-072 Massachusetts DOL No. A A 000072 Connecticut DOH No. PH-0622 Maine DEP No. LA-024 Vermont DOH No. AL-709936

Page 3 of 3

Signature:

Lab ID Number

Sample Location

Sample Description

Fibrous

Present

Present

0.0



Tuesday, September 10, 2019

Attn: Ms. Jill Libby Tighe & Bond 213 Court St, Suite 1100 Middletown, CT 06457

Project ID: 150439023 MILL HILL ELEMNTARY

**SDG ID:** GCD99688

Sample ID#s: CD99688 - CD99690

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis/Shiller

**Laboratory Director** 

NELAC - #NY11301 CT Lab Registration #PH-0618 MA Lab Registration #M-CT007 ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003 NY Lab Registration #11301 PA Lab Registration #68-03530 RI Lab Registration #63 UT Lab Registration #CT00007

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

September 10, 2019

SDG I.D.: GCD99688

Project ID: 150439023 MILL HILL ELEMNTARY

Client Id	Lab Id	Matrix
MILL HILL S100 (1.5-1.75)	CD99688	SOIL
MILL HILL S101 (1-1.25)	CD99689	SOIL
MILL HILL S102 (1-1.25)	CD99690	SOIL



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## **Analysis Report**

September 10, 2019

FOR: Attn: Ms. Jill Libby Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:09/06/198:40Location Code:TIGHE-DASReceived by:B09/06/1919:06

Rush Request: 24 Hour Analyzed by: see "By" below

P.O.#:

## **Laboratory Data**

SDG ID: GCD99688

Phoenix ID: CD99688

Project ID: 150439023 MILL HILL ELEMNTARY

Client ID: MILL HILL S100 (1.5-1.75)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	1.91	0.72	mg/Kg	1	09/07/19	EK	SW6010D
Lead	11.0	0.36	mg/Kg	1	09/07/19	EK	SW6010D
Percent Solid	83		%		09/06/19	ATP	SW846-%Solid
Soil Extraction for Pesticide	Completed				09/06/19	MM/L	SW3545A
Soil Extraction SVOA PAH	Completed				09/06/19	NT/NM/L	ıLSW3545A
Extraction of CT ETPH	Completed				09/06/19	M/LU	SW3545A
Extraction for PCB	Completed				09/06/19	BB/VT/S	BSW3540C
Total Metals Digest	Completed				09/06/19	JJ/AG/B	F SW3050B
TPH by GC (Extractable	e Products	<b>3)</b>					
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	09/07/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	09/07/19	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	58		%	1	09/07/19	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	390	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	09/09/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	98		%	10	09/09/19	SC	30 - 150 %
% DCBP (Confirmation)	80		%	10	09/09/19	SC	30 - 150 %

Project ID: 150439023 MILL HILL ELEMNTARY Phoenix I.D.: CD99688

Client ID: MILL HILL S100 (1.5-1.75)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% TCMX	94		%	10	09/09/19	SC	30 - 150 %
% TCMX (Confirmation)	98		%	10	09/09/19	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.6	ug/Kg	2	09/09/19	AW	SW8081B
4,4' -DDE	ND	1.6	ug/Kg ug/Kg	2	09/09/19	AW	SW8081B
4,4' -DDT	ND	1.6	ug/Kg ug/Kg	2	09/09/19	AW	SW8081B
a-BHC	ND	1.6	ug/Kg ug/Kg	2	09/09/19	AW	SW8081B
Alachlor	ND	8.0	ug/Kg ug/Kg	2	09/09/19	AW	SW8081B
Aldrin	ND	1.6	ug/Kg ug/Kg	2	09/09/19	AW	SW8081B
b-BHC	ND	1.6	ug/Kg ug/Kg	2	09/09/19	AW	SW8081B
	ND	40	ug/Kg ug/Kg	2	09/09/19	AW	SW8081B
Chlordane	ND	1.6	ug/Kg ug/Kg	2	09/09/19	AW	SW8081B
d-BHC	ND	4.0	ug/Kg ug/Kg		09/09/19	AW	SW8081B
Dieldrin				2	09/09/19		
Endosulfan I	ND	8.0	ug/Kg	2		AW	SW8081B SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	09/09/19	AW	
Endosulfan sulfate	ND	8.0	ug/Kg	2	09/09/19	AW	SW8081B
Endrin	ND	8.0	ug/Kg	2	09/09/19	AW	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	09/09/19	AW	SW8081B
Endrin ketone	ND	8.0	ug/Kg	2	09/09/19	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	09/09/19	AW	SW8081B
Heptachlor	ND	8.0	ug/Kg	2	09/09/19	AW	SW8081B
Heptachlor epoxide	ND	8.0	ug/Kg	2	09/09/19	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	09/09/19	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	09/09/19	AW	SW8081B
QA/QC Surrogates							
% DCBP	60		%	2	09/09/19	AW	30 - 150 %
% DCBP (Confirmation)	51		%	2	09/09/19	AW	30 - 150 %
% TCMX	51		%	2	09/09/19	AW	30 - 150 %
% TCMX (Confirmation)	47		%	2	09/09/19	AW	30 - 150 %
Polynuclear Aromatic Ho	<u>C</u>						
2-Methylnaphthalene	ND	280	ug/Kg	1	09/07/19	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	09/07/19	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	09/07/19	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	09/07/19	WB	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	09/07/19	WB	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	09/07/19	WB	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	09/07/19	WB	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	09/07/19	WB	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	09/07/19	WB	SW8270D
Chrysene	ND	280	ug/Kg	1	09/07/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	09/07/19	WB	SW8270D
Fluoranthene	ND	280	ug/Kg	1	09/07/19	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	09/07/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	09/07/19	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	09/07/19	WB	SW8270D
Phenanthrene	ND	280	ug/Kg	1	09/07/19	WB	SW8270D
Pyrene	ND	280	ug/Kg	1	09/07/19	WB	SW8270D
QA/QC Surrogates		- <del>-</del>		•			- <del>-</del>
and ourrogates							

Project ID: 150439023 MILL HILL ELEMNTARY

Client ID: MILL HILL S100 (1.5-1.75)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
% 2-Fluorobiphenyl	71		%	1	09/07/19	WB	30 - 130 %
% Nitrobenzene-d5	66		%	1	09/07/19	WB	30 - 130 %
% Terphenyl-d14	63		%	1	09/07/19	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

## **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

September 10, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Phoenix I.D.: CD99688



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

September 10, 2019

FOR: Attn: Ms. Jill Libby Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:09/06/198:45Location Code:TIGHE-DASReceived by:B09/06/1919:06

Rush Request: 24 Hour Analyzed by: see "By" below

P.O.#:

**Laboratory Data** 

SDG ID: GCD99688

Phoenix ID: CD99689

Project ID: 150439023 MILL HILL ELEMNTARY

Client ID: MILL HILL S101 (1-1.25)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	2.98	0.72	mg/Kg	1	09/07/19	EK	SW6010D
Lead	3.16	0.36	mg/Kg	1	09/07/19	EK	SW6010D
Percent Solid	85		%		09/06/19	ATP	SW846-%Solid
Soil Extraction for Pesticide	Completed				09/06/19	MM/L	SW3545A
Soil Extraction SVOA PAH	Completed				09/06/19	NT/NM/L	ıLSW3545A
Extraction of CT ETPH	Completed				09/06/19	M/LU	SW3545A
Extraction for PCB	Completed				09/06/19	BB/VT/S	BSW3540C
Total Metals Digest	Completed				09/06/19	JJ/AG/B	F SW3050B
TPH by GC (Extractable	e Products	<b>3)</b>					
Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	09/07/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	09/07/19	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	59		%	1	09/07/19	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	390	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	09/09/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	83		%	10	09/09/19	SC	30 - 150 %
% DCBP (Confirmation)	80		%	10	09/09/19	SC	30 - 150 %

Project ID: 150439023 MILL HILL ELEMNTARY Phoenix I.D.: CD99689

Client ID: MILL HILL S101 (1-1.25)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
% TCMX	71		%	10	09/09/19	SC	30 - 150 %
% TCMX (Confirmation)	70		%	10	09/09/19	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.6	ug/Kg	2	09/09/19	AW	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	09/09/19	AW	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	09/09/19	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	09/09/19	AW	SW8081B
Alachlor	ND	7.8	ug/Kg	2	09/09/19	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	09/09/19	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	09/09/19	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	09/09/19	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	09/09/19	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	09/09/19	AW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	09/09/19	AW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	09/09/19	AW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	09/09/19	AW	SW8081B
Endrin	ND	7.8	ug/Kg	2	09/09/19	AW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	09/09/19	AW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	09/09/19	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	09/09/19	AW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	09/09/19	AW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	09/09/19	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	09/09/19	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	09/09/19	AW	SW8081B
QA/QC Surrogates	115	100	ag/r (g	-	00/00/10	, , , , ,	01100015
% DCBP	54		%	2	09/09/19	AW	30 - 150 %
% DCBP (Confirmation)	45		%	2	09/09/19	AW	30 - 150 %
% TCMX	37		%	2	09/09/19	AW	30 - 150 %
% TCMX (Confirmation)	34		%	2	09/09/19	AW	30 - 150 %
•			70	_	00/00/10	,,,,,	00 100 /0
Polynuclear Aromatic	<del></del>				00/07/40		0.000
2-Methylnaphthalene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Fluoranthene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Phenanthrene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Pyrene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
QA/QC Surrogates							

Project ID: 150439023 MILL HILL ELEMNTARY Phoenix I.D.: CD99689

Client ID: MILL HILL S101 (1-1.25)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
% 2-Fluorobiphenyl	68		%	1	09/07/19	WB	30 - 130 %
% Nitrobenzene-d5	64		%	1	09/07/19	WB	30 - 130 %
% Terphenyl-d14	68		%	1	09/07/19	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

## **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

September 10, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

September 10, 2019

FOR: Attn: Ms. Jill Libby Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:09/06/198:50Location Code:TIGHE-DASReceived by:B09/06/1919:06

Rush Request: 24 Hour Analyzed by: see "By" below

P.O.#:

**Laboratory Data** 

SDG ID: GCD99688

Phoenix ID: CD99690

Project ID: 150439023 MILL HILL ELEMNTARY

Client ID: MILL HILL S102 (1-1.25)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	2.08	0.78	mg/Kg	1	09/07/19	EK	SW6010D
Lead	3.71	0.39	mg/Kg	1	09/07/19	EK	SW6010D
Percent Solid	85		%		09/06/19	ATP	SW846-%Solid
Soil Extraction for Pesticide	Completed				09/06/19	MM/L	SW3545A
Soil Extraction SVOA PAH	Completed				09/06/19	NT/NM/U	ıLSW3545A
Extraction of CT ETPH	Completed				09/06/19	M/LU	SW3545A
Extraction for PCB	Completed				09/06/19	BB/VT/S	BSW3540C
Total Metals Digest	Completed				09/06/19	JJ/AG/B	F SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	09/07/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	09/07/19	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	55		%	1	09/07/19	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	 ND	380	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	09/09/19	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	09/09/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	80		%	10	09/09/19	SC	30 - 150 %
% DCBP (Confirmation)	90		%	10	09/09/19	SC	30 - 150 %

Project ID: 150439023 MILL HILL ELEMNTARY Phoenix I.D.: CD99690

Client ID: MILL HILL S102 (1-1.25)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
% TCMX	83		%	10	09/09/19	SC	30 - 150 %
% TCMX (Confirmation)	90		%	10	09/09/19	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.6	ug/Kg	2	09/09/19	AW	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	09/09/19	AW	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	09/09/19	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	09/09/19	AW	SW8081B
Alachlor	ND	7.8	ug/Kg	2	09/09/19	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	09/09/19	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	09/09/19	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	09/09/19	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	09/09/19	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	09/09/19	AW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	09/09/19	AW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	09/09/19	AW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	09/09/19	AW	SW8081B
Endrin	ND	7.8	ug/Kg	2	09/09/19	AW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	09/09/19	AW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	09/09/19	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	09/09/19	AW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	09/09/19	AW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	09/09/19	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	09/09/19	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	09/09/19	AW	SW8081B
QA/QC Surrogates	112	100	ag/r (g	-	00/00/10	, , , ,	01100015
% DCBP	48		%	2	09/09/19	AW	30 - 150 %
% DCBP (Confirmation)	43		%	2	09/09/19	AW	30 - 150 %
% TCMX	43		%	2	09/09/19	AW	30 - 150 %
% TCMX (Confirmation)	41		%	2	09/09/19	AW	30 - 150 %
·	шс						
Polynuclear Aromatic		070		4	00/07/40	WD	014/0070D
2-Methylnaphthalene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Fluoranthene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Phenanthrene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
Pyrene	ND	270	ug/Kg	1	09/07/19	WB	SW8270D
QA/QC Surrogates							

Project ID: 150439023 MILL HILL ELEMNTARY

Phoenix I.D.: CD99690

Client ID: MILL HILL S102 (1-1.25)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
% 2-Fluorobiphenyl	49		%	1	09/07/19	WB	30 - 130 %
% Nitrobenzene-d5	44		%	1	09/07/19	WB	30 - 130 %
% Terphenyl-d14	43		%	1	09/07/19	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

## **Comments:**

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Phyllis Shiller, Laboratory Director

September 10, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## QA/QC Report

September 10, 2019

## QA/QC Data

	SDG I	.D.: G	CD99	688	
MS	MSD	MS	% Rec	70	

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	Rec Limits	RPD Limits
QA/QC Batch 495843 (mg/kg), ICP Metals - Soil	QC Sam	nple No:	CD9938	6 (CD99	688, CI	D99689	), CD996	590)					
Arsenic	BRL	0.67	2.29	2.43	NC	104	117	11.8	91.3			75 - 125	30
Lead	BRL	0.33	18.5	18.4	0.50	101	110	8.5	92.7			75 - 125	30



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## QA/QC Report

September 10, 2019

## QA/QC Data

SDG I.D.: GCD99688

							3001	.D C		,00
Parameter	Blank	BIk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 495861 (mg/Kg), (	2C San	ple No: CD9969	7 (CD99688, CD9968	9, CD99	690)					
TPH by GC (Extractable P	roduc	ts) - Soil								
Ext. Petroleum H.C. (C9-C36)	ND	50	96	97	1.0	61	57	6.8	60 - 120	30
% n-Pentacosane	64	%	80	79	1.3	77	73	5.3	50 - 150	30
Comment:										
Additional surrogate criteria: LCS a normalized based on the alkane ca			% MS acceptance range	50-150%	6. The E	TPH/DR	O LCS h	as bee	n	
QA/QC Batch 495864 (ug/Kg), C	C Sam	ple No: CD9969	6 10X (CD99688, CD9	9689, C	D99690	)				
Polychlorinated Biphenyls	- Soil	•								
PCB-1016	ND	170	79	89	11.9	84			40 - 140	30
PCB-1221	ND	170	,,	= .					40 - 140	30
PCB-1232	ND	170							40 - 140	30
PCB-1242	ND	170							40 - 140	30
PCB-1248	ND	170							40 - 140	30
PCB-1254	ND	170							40 - 140	30
PCB-1260	ND	170	93	99	6.3	96			40 - 140	30
PCB-1262	ND	170							40 - 140	30
PCB-1268	ND	170							40 - 140	30
% DCBP (Surrogate Rec)	96	%	86	99	14.1	91			30 - 150	30
% DCBP (Surrogate Rec) (Confirm	100	%	80	99	21.2	90			30 - 150	30
% TCMX (Surrogate Rec)	102	%	84	92	9.1	83			30 - 150	30
		%	90	94	4.3	85			30 - 150	30
% TCMX (Surrogate Rec) (Confirm Comment:	106	70								
=										
Comment: This batch consists of a Blank, LCS	S, LCSD	and MS.	D 2X (CD99688, CD99	689, CD	99690)					
Comment: This batch consists of a Blank, LCS QA/QC Batch 495860 (ug/Kg), C	S, LCSD	and MS.	0 2X (CD99688, CD99	689, CD	99690)					
Comment: This batch consists of a Blank, LCS QA/QC Batch 495860 (ug/Kg), C Pesticides - Soil	S, LCSD	and MS.	D 2X (CD99688, CD99 86	689, CD 108	99690) 22.7	65	61	6.3	40 - 140	30
Comment: This batch consists of a Blank, LCS QA/QC Batch 495860 (ug/Kg), C Pesticides - Soil 4,4'-DDD	S, LCSD IC Sam	and MS. ple No: CD9969				65 58	61 57	6.3 1.7	40 - 140 40 - 140	30 30
Comment: This batch consists of a Blank, LCS DA/QC Batch 495860 (ug/Kg), C Pesticides - Soil 1,4'-DDD 1,4'-DDE	S, LCSD 2C Sam ND	and MS. ple No: CD99690	86	108	22.7					
Comment: This batch consists of a Blank, LCS QA/QC Batch 495860 (ug/Kg), C Pesticides - Soil 4,4'-DDD 4,4'-DDE 4,4'-DDT	S, LCSD C Sam ND ND	and MS. ple No: CD9969 1.7 1.7	86 82	108 87	22.7 5.9	58	57	1.7	40 - 140	30
Comment: This batch consists of a Blank, LCS QA/QC Batch 495860 (ug/Kg), CO Pesticides - Soil 1,4'-DDD 1,4'-DDE 1,4'-DDT 1-BHC	S, LCSD	and MS. ple No: CD9969 1.7 1.7 1.7	86 82 89	108 87 91	22.7 5.9 2.2	58 57	57 57	1.7 0.0	40 - 140 40 - 140	30 30
Comment: This batch consists of a Blank, LCS QA/QC Batch 495860 (ug/Kg), COMMENT OF COMME	S, LCSD C Sam ND ND ND ND ND	and MS. ple No: CD99690  1.7  1.7  1.7  1.7	86 82 89 70	108 87 91 75	22.7 5.9 2.2 6.9	58 57 52	57 57 49	1.7 0.0 5.9	40 - 140 40 - 140 40 - 140	30 30 30
Comment: This batch consists of a Blank, LCS QA/QC Batch 495860 (ug/Kg), CO Pesticides - Soil 4,4' -DDD 4,4' -DDE 4,4' -DDT a-BHC Alachlor Aldrin	S, LCSD C Sam ND ND ND ND ND ND	and MS. ple No: CD99690  1.7  1.7  1.7  1.0  3.3	86 82 89 70 NA	108 87 91 75 NA	22.7 5.9 2.2 6.9 NC	58 57 52 NA	57 57 49 NA	1.7 0.0 5.9 NC	40 - 140 40 - 140 40 - 140 40 - 140	30 30 30 30
Comment: This batch consists of a Blank, LCS DA/QC Batch 495860 (ug/Kg), CO Pesticides - Soil 1,4'-DDD 1,4'-DDE 1,4'-DDT 1-BHC Alachlor Aldrin D-BHC	S, LCSD C Sam ND ND ND ND ND ND	and MS. ple No: CD99690  1.7 1.7 1.7 1.0 3.3 1.0	86 82 89 70 NA 70	108 87 91 75 NA 73	22.7 5.9 2.2 6.9 NC 4.2	58 57 52 NA 50	57 57 49 NA 51	1.7 0.0 5.9 NC 2.0	40 - 140 40 - 140 40 - 140 40 - 140 40 - 140	30 30 30 30 30
Comment: This batch consists of a Blank, LCS DA/QC Batch 495860 (ug/Kg), CO Pesticides - Soil 1,4'-DDD 1,4'-DDE 1,4'-DDT 1-BHC Alachlor Aldrin 1-BHC Chlordane	S, LCSD C Sam ND ND ND ND ND ND ND	and MS. ple No: CD99690  1.7 1.7 1.7 1.0 3.3 1.0 1.0	86 82 89 70 NA 70	108 87 91 75 NA 73 92	22.7 5.9 2.2 6.9 NC 4.2 2.2	58 57 52 NA 50 64	57 57 49 NA 51 60	1.7 0.0 5.9 NC 2.0 6.5	40 - 140 40 - 140 40 - 140 40 - 140 40 - 140 40 - 140	30 30 30 30 30 30
Comment: This batch consists of a Blank, LCS QA/QC Batch 495860 (ug/Kg), CO Pesticides - Soil 4,4'-DDD 4,4'-DDE 4,4'-DDT A-BHC Alachlor Aldrin D-BHC Chlordane d-BHC	S, LCSD C Sam ND ND ND ND ND ND ND ND	and MS. ple No: CD99690  1.7 1.7 1.7 1.0 3.3 1.0 1.0 3.3	86 82 89 70 NA 70 90	108 87 91 75 NA 73 92 80	22.7 5.9 2.2 6.9 NC 4.2 2.2 5.1	58 57 52 NA 50 64 55	57 57 49 NA 51 60 54	1.7 0.0 5.9 NC 2.0 6.5 1.8	40 - 140 40 - 140 40 - 140 40 - 140 40 - 140 40 - 140 40 - 140	30 30 30 30 30 30 30
Comment: This batch consists of a Blank, LCS QA/QC Batch 495860 (ug/Kg), CO Pesticides - Soil 4,4'-DDD 4,4'-DDE 4,4'-DDT a-BHC Alachlor Aldrin b-BHC Chlordane d-BHC Dieldrin	S, LCSD  OC Sam  ND  ND  ND  ND  ND  ND  ND  ND  ND  N	and MS. ple No: CD99690  1.7 1.7 1.7 1.0 3.3 1.0 1.0 33 3.3	86 82 89 70 NA 70 90 76	108 87 91 75 NA 73 92 80 70	22.7 5.9 2.2 6.9 NC 4.2 2.2 5.1	58 57 52 NA 50 64 55 45	57 57 49 NA 51 60 54 43	1.7 0.0 5.9 NC 2.0 6.5 1.8 4.5	40 - 140 40 - 140 40 - 140 40 - 140 40 - 140 40 - 140 40 - 140	30 30 30 30 30 30 30 30
Comment: This batch consists of a Blank, LCS QA/QC Batch 495860 (ug/Kg), CO Pesticides - Soil 4,4'-DDD 4,4'-DDE 4,4'-DDT a-BHC Alachlor Aldrin b-BHC Chlordane d-BHC Dieldrin Endosulfan I	S, LCSD  OC Sam  ND  ND  ND  ND  ND  ND  ND  ND  ND  N	and MS. ple No: CD99690  1.7 1.7 1.7 1.0 3.3 1.0 1.0 3.3 3.3 1.0	86 82 89 70 NA 70 90 76 64 83	108 87 91 75 NA 73 92 80 70	22.7 5.9 2.2 6.9 NC 4.2 2.2 5.1 9.0 2.4	58 57 52 NA 50 64 55 45	57 57 49 NA 51 60 54 43 56	1.7 0.0 5.9 NC 2.0 6.5 1.8 4.5	40 - 140 40 - 140	30 30 30 30 30 30 30 30 30 30
Comment: This batch consists of a Blank, LCS QA/QC Batch 495860 (ug/Kg), CO Pesticides - Soil 4,4'-DDD 4,4'-DDE 4,4'-DDT a-BHC Alachlor Aldrin b-BHC Chlordane d-BHC Dieldrin Endosulfan I Endosulfan II	S, LCSD  OC Sam  ND  ND  ND  ND  ND  ND  ND  ND  ND  N	and MS. ple No: CD99690  1.7 1.7 1.7 1.0 3.3 1.0 1.0 33 3.3 1.0 3.3	86 82 89 70 NA 70 90 76 64 83 81	108 87 91 75 NA 73 92 80 70 85 84	22.7 5.9 2.2 6.9 NC 4.2 2.2 5.1 9.0 2.4 3.6	58 57 52 NA 50 64 55 45 57	57 57 49 NA 51 60 54 43 56	1.7 0.0 5.9 NC 2.0 6.5 1.8 4.5 1.8	40 - 140 40 - 140	30 30 30 30 30 30 30 30 30 30
Comment: This batch consists of a Blank, LCS QA/QC Batch 495860 (ug/Kg), CO Pesticides - Soil 4,4'-DDD 4,4'-DDE 4,4'-DDT a-BHC Alachlor Aldrin b-BHC Chlordane d-BHC Dieldrin Endosulfan I Endosulfan sulfate	S, LCSD  OC Sam  ND  ND  ND  ND  ND  ND  ND  ND  ND  N	and MS. ple No: CD99690  1.7 1.7 1.7 1.0 3.3 1.0 1.0 33 3.3 1.0 3.3 3.3	86 82 89 70 NA 70 90 76 64 83 81	108 87 91 75 NA 73 92 80 70 85 84	22.7 5.9 2.2 6.9 NC 4.2 2.2 5.1 9.0 2.4 3.6 4.9	58 57 52 NA 50 64 55 45 57 58 67	57 57 49 NA 51 60 54 43 56 56	1.7 0.0 5.9 NC 2.0 6.5 1.8 4.5 1.8 3.5 6.2	40 - 140 40 - 140	30 30 30 30 30 30 30 30 30 30
	S, LCSD  OC Sam  ND  ND  ND  ND  ND  ND  ND  ND  ND  N	and MS. ple No: CD99690  1.7 1.7 1.7 1.0 3.3 1.0 1.0 33 3.3 1.0 3.3 3.3 3.3	86 82 89 70 NA 70 90 76 64 83 81 99	108 87 91 75 NA 73 92 80 70 85 84 104	22.7 5.9 2.2 6.9 NC 4.2 2.2 5.1 9.0 2.4 3.6 4.9 8.2	58 57 52 NA 50 64 55 45 57 58 67 62	57 57 49 NA 51 60 54 43 56 63 68	1.7 0.0 5.9 NC 2.0 6.5 1.8 4.5 1.8 3.5 6.2 9.2	40 - 140 40 - 140	30 30 30 30 30 30 30 30 30 30 30

## QA/QC Data

Parameter	Blank	BIK RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
g-BHC	ND	1.0	64	68	6.1	47	43	8.9	40 - 140	30
Heptachlor	ND	3.3	66	70	5.9	49	53	7.8	40 - 140	30
Heptachlor epoxide	ND	3.3	74	78	5.3	55	52	5.6	40 - 140	30
Methoxychlor	ND	3.3	85	88	3.5	54	53	1.9	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	79	%	89	95	6.5	53	55	3.7	30 - 150	30
% DCBP (Confirmation)	68	%	73	80	9.2	49	49	0.0	30 - 150	30
% TCMX	62	%	62	64	3.2	47	45	4.3	30 - 150	30
% TCMX (Confirmation)	58	%	63	63	0.0	44	43	2.3	30 - 150	30
QA/QC Batch 495863 (ug/kg), C	C Sam	ple No: CD99697 (CD99688, CD	99689	, CD996	90)					
Polynuclear Aromatic HC	- Soil									
2-Methylnaphthalene	ND	230	58	55	5.3	53	59	10.7	30 - 130	30
Acenaphthene	ND	230	62	63	1.6	58	65	11.4	30 - 130	30
Acenaphthylene	ND	230	61	61	0.0	56	62	10.2	30 - 130	30
Anthracene	ND	230	61	62	1.6	60	66	9.5	30 - 130	30
Benz(a)anthracene	ND	230	63	63	0.0	58	68	15.9	30 - 130	30
Benzo(a)pyrene	ND	230	63	64	1.6	56	63	11.8	30 - 130	30
Benzo(b)fluoranthene	ND	230	67	68	1.5	57	65	13.1	30 - 130	30
Benzo(ghi)perylene	ND	230	59	58	1.7	57	72	23.3	30 - 130	30
Benzo(k)fluoranthene	ND	230	64	64	0.0	56	63	11.8	30 - 130	30
Chrysene	ND	230	62	62	0.0	56	66	16.4	30 - 130	30
Dibenz(a,h)anthracene	ND	230	63	64	1.6	66	79	17.9	30 - 130	30
Fluoranthene	ND	230	59	59	0.0	63	79	22.5	30 - 130	30
Fluorene	ND	230	64	62	3.2	58	69	17.3	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	66	64	3.1	63	79	22.5	30 - 130	30
Naphthalene	ND	230	57	56	1.8	54	57	5.4	30 - 130	30
Phenanthrene	ND	230	58	59	1.7	65	74	12.9	30 - 130	30
Pyrene	ND	230	61	59	3.3	61	78	24.5	30 - 130	30
% 2-Fluorobiphenyl	54	%	61	61	0.0	56	60	6.9	30 - 130	30
% Nitrobenzene-d5	50	%	58	57	1.7	57	64	11.6	30 - 130	30
% Terphenyl-d14	49	%	53	51	3.8	47	60	24.3	30 - 130	30
Comment:										

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director

SDG I.D.: GCD99688

September 10, 2019

Tuesday, September 10, 2019 Criteria: CT: GAM, RC

## Sample Criteria Exceedances Report GCD99688 - TIGHE-DAS

State: CT

RL Analysis SampNo Acode Phoenix Analyte Criteria Units

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

<sup>\*\*\*</sup> No Data to Display \*\*\*



# REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. Client: Tighe & Bond

Project Location: 150439023 MILL HILL ELEMNTARY Project Number:

Laboratory Sample ID(s): CD99688-CD99690 Sampling Date(s): 9/6/2019

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 8081, 8082, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes □ No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes □ No
1B	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	✓ Yes □ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	✓ Yes □ No □ NA
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	✓ Yes □ No
5	a) Were reporting limits specified or referenced on the chain-of-custody?	✓ Yes □ No
	b) Were these reporting limits met?	✓ Yes □ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes 🗹 No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	✓ Yes □ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalt knowledge and belief and based upon my personal in information contained in this analytical report, such	nquiry of those responsible for providing the
Authorized Signature:	Position: Assistant Lab Director
Printed Name: Greg Lawrence	Date: Tuesday, September 10, 2019
Name of Laboratory Phoenix Environmental Labs, Inc.	

This certification form is to be used for RCP methods only.



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



## **RCP Certification Report**

September 10, 2019 SDG I.D.: GCD99688

## SDG Comments

Metals Analysis:

The client requested a shorter list of elements than the 6010 RCP list. Only Arsenic and Lead are reported as requested on the chain of custody.

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

## **ETPH Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:

## AU-FID84 09/06/19-1

Jeff Bucko, Chemist 09/06/19

CD99688, CD99689, CD99690

The initial calibration (ETPH820I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (906A003\_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

## QC (Batch Specific):

## Batch 495861 (CD99697)

CD99688, CD99689, CD99690

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

#### ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

#### Instrument:

### ARCOS 09/07/19 08:38

Emily Kolominskaya, Chemist 09/07/19

CD99688, CD99689, CD99690

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

#### QC (Batch Specific):

### Batch 495843 (CD99386)

CD99688, CD99689, CD99690

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.



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## **Certification Report**

September 10, 2019 SDG I.D.: GCD99688

### ICP Metals Narration

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

#### **PCB Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:

AU-ECD29 09/09/19-1

Saadia Chudary, Chemist 09/09/19

CD99688

The initial calibration (PC703Al) RSD for the compound list was less than 20% except for the following compounds: None. The initial calibration (PC703Bl) RSD for the compound list was less than 20% except for the following compounds: None. The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

## AU-ECD5 09/09/19-1

Saadia Chudary, Chemist 09/09/19

CD99690

The initial calibration (PC905Al) RSD for the compound list was less than 20% except for the following compounds: None. The initial calibration (PC905Bl) RSD for the compound list was less than 20% except for the following compounds: None. The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

## AU-ECD8 09/09/19-1

Saadia Chudary, Chemist 09/09/19

CD99689

The initial calibration (PC830Al) RSD for the compound list was less than 20% except for the following compounds: None. The initial calibration (PC830Bl) RSD for the compound list was less than 20% except for the following compounds: None. The continuing calibration %D for the compound list was less than 15% except for the following compounds: None.

### QC (Batch Specific):

## Batch 495864 (CD99696)

CD99688, CD99689, CD99690

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

This batch consists of a Blank, LCS, LCSD and MS.

#### **PEST Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

## Instrument:

## AU-ECD7 09/09/19-1

Adam Werner, Chemist 09/09/19

CD99688, CD99689, CD99690

The initial calibration (PS905Al) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS905BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CD99688, CD99689, CD99690

Preceding CC 909A004 - Endosulfan sulfate 21%H (20%)



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### RCP Certification Report

September 10, 2019 SDG I.D.: GCD99688

### **PEST Narration**

Succeeding CC 909A022 - None.

#### QC (Site Specific):

#### Batch 495860 (CD99690)

CD99688, CD99689, CD99690

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 30 - 150 with the following exceptions: None.

All MSD recoveries were within 30 - 150 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

#### **SVOA Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:

#### CHEM07 09/07/19-1

Matt Richard, Chemist 09/07/19

CD99688, CD99689, CD99690

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM07/7 BN 0812A):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/0907\_03-7\_BN\_0812A):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

#### QC (Batch Specific):

#### Batch 495863 (CD99697)

CD99688, CD99689, CD99690

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)



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### **RCP Certification Report**

September 10, 2019 SDG I.D.: GCD99688

### **Temperature Narration**

The samples were received at 5.6C with cooling initiated. (Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes V No	) of b	ontact Options:			This section MUST be	completed with Bottle Quantities.	1400/202	Zi toos luose	Seligite Construction of the state of the st	\$							Late Format	PDF		Other  Data Package  Tier II Checklist	Eull Data Package* Phoenix Std Report	* SURCHARGE APPLIES
Coc Coolant: IPI	⊃ <b>9e</b> Giu∋⊥	Data Delivery/Contact Options:	Phone:	Project F	- 088h			TO T	ENGS NO								MCP Certification	GW-1 WWRA eSMART	GW-2 GW-3	S-1 GW-1 S-1 GW-2 S-1 GW-3 S-2 GW-1 S-2 GW-2 S-2 GW-3	S-3 GW-1 S-3 GW-2 S-3 GW-3 SW Protection	ere collected: CT
	RECORD	lanchester, CT 06040	Fax (860) 645-0823 <b>645-8726</b>	TH HE		t Band			100 00 00 00 00 00 00 00 00 00 00 00 00								tag aga	GW Protection	☐ SW Protection	GA Mobility GB Mobility	Residential DEC S-3   I/C DEC   Swapped   Swap	State where samples were collected:
	<b>CHAIN OF CUSTODY RECORD</b>	587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040	Email: info@phoenixlabs.com Fax (860) 64 Client Services (860) 645-8726	Project: 1564390	3rian	QUOTE #	Analysis	Request C.		××		<b>ナ</b> <b>ナ</b> <b>ナ</b>				Time		Direct Exposure (Comm/Industrial)	Direct Exposure	GA Leachability  me: GB Leachability	GA-GW Objectives	
	CH	587 East Midd	Email: inf C			101	tion 9/6/14	<del>-</del>		8:46		95:30					ن			Tupraround Time:	2 Days* 3 Days*	Other Surcharge Applies
			Environmental Laboratories, Inc.	Tight and Bond	S+ Su		Cipal Sample Attentiation - Identification	Matrix Code:  Matrix Code:  DW=Drivking Water GW=Ground Water SW=Surface Water WW=Waste Water  RW=Raw Water SE=Sedingent SL=Sludge S=Soil SD=Soild W=Wipe OIL=Oil  B=Bulk L=Liquid X =	Customer Sample Sample Identification Matrix	0(1.5-17	(52.1-1) IOIS 11.1H MIN	Mul Hill S102 (1-1.75)				Accounted by:	Land Marie	)		Comments, Special Requirements or Regulations:	DAS Pricing	
	(		Environmen	Customer:	Address:	1 1	Sampler's	Matrix Code: DW=Drinking Water RW=Raw Water SE= B=Bulk L=Liquid X =	PHOENIX USE ONLY SAMPLE #	40		02922				Relinguished by	Las A			Comments, Special F	DAS	



## Eastern Analytical Services, Inc.

Phone (914) 592-8380

4 Westchester Plaza Elmsford, New York 10523-1610 http://www.EASInc.com Fax (914) 592-8956

September 09, 2019

Mr. James T. Olsen Tighe & Bond 53 Southampton Road Westfield, MA 01085

RE: CPN 150439023 - Mill Hill Elementary School

EAS Batch No. 1907396

Dear Mr. Olsen:

Enclosed please find the laboratory results for the 3 bulk sample(s) received by Eastern Analytical Services, Inc. September 06, 2019. The analysis was performed in accordance with EPA/600/R-93/116 and NYS-DOH Item 198.1.

Thank you for allowing EAS, Inc. to provide Tighe & Bond with professional analytical services. If you have any questions or require additional information or assistance, please feel free to contact me at the number above or e-mail Lab@EASInc.com.

Sincerely,

EASTERN ANALYTICAL SERVICES, INC.

Paul Stascavage Laboratory Director

PS:om

Enclosures

Electronically Transmitted September 07, 2019





#### EAS Batch No. 1907396 Eastern Analytical Services, Inc.

### **Bulk Sample Results**

RE: CPN 150439023 - Mill Hill Elementary School

Client:

Date Collected: Collected By:

09/06/2019

Brian Sirowich

Date Received: Date Analyzed: 09/06/2019 09/07/2019

Analyzed By: Signature:

Ghayath Elias 116

Analytical Method: 40 CFR Part 763, Sub. E, App. E/NYS-DOH 198.1 (PLM)

NVLAP Lab Code: 101646-0

NYS Lab No.

10851

Sample ID Number

Mill Hill S100

Mill Hill S101

Mill Hill S102

Layer Number

Lab ID Number

2642376

2642377

2642378

Tighe & Bond

53 Southampton Road

Westfield, MA 01085

Sample Location

Not Given

Not Given

Not Given

Sample Description

Non-Fibrous

Materials

Present

Not Given

0.0

30.0

30.0

0.0

39.0

Not Given

Not Given

0.0

30.0

20.0

0.0

48.0

		VE 18 :	V IF	W. IF de de
Method of Qua	antification	Visual Estimation	Visual Estimation	Visual Estimation
Appearance	Layered	No	No	No
	Homogenous	No	No	No
	Fibrous	Yes	Yes	Yes
	Color	Brown	Brown	Brown
Sample Treatm	nent	Homogenized	Homogenized	Homogenized
Asbestos	% Amosite	0.0	0.0	0.0
Content	% Chrysotile	0.0	0.0	0.0
	% Other	0.0	0.0	0.0
	% Total Asbestos	0.0	0.0	0.0
Other Fibrous	% Fibrous Glass	0.0	0.0	0.0
Materials	% Cellulose	1.0	1.0	2.0
Present	% Other	0.0	0.0	0.0

Results Applicable To Those Items Tested. Report Cannot be Reproduced, Except Entirely, Without Written Approval of the Laboratory. Liability Limited To Cost Of Analysis. This Report Must Not be Used by the Client to Claim Product Endorsement by NVLAP or Any Agency of the US Government. These Results Can Not Be Used To Claim That NOB Items Tested Are Non-Asbestos Containing. Overall Lab Accuracy ± 17%. Samples received in acceptable condition unless otherwise noted.

AIHA Accreditation No. 100263 Rhode Island DOH No. AAL-072 Massachusetts DOL No. A A 000072 Connecticut DOH No. PH-0622 Maine DEP No. LA-024 Vermont DOH No. AL-709936

0.0

30.0

20.0

0.0

49.0

% Unidentified

% Silicates

% Other

% Carbonates

% Unidentified

### Eastern Analytical Services, Inc. Chain of Custody Form

EAS Client:

Tighe & Bond

53 Southampton Road

Westfield, MA 01085

Analyte:

% Asb

No. of Samples 3

Received:

No. of Samples 3

Analyzed:

Client Project

RE: CPN 150439023 - Mill Hill Elementary School

Number/Name:

Lab ID Numbers: 2642376-2642378

Collected By:

Brian Sirowich

Signature

Date: 09/06/2019

EAS Batch No.

Turn-Around:

Shipped Via:

State of Origin:

Sample Disposition:

Received By:

Ghayath Elias

Date: 09/06/2019

Time: 1627

1907396

12 Hr

CT

Walk In

Return

Standard x

Logged In By:

Ghayath Elias

Date: 09/06/2019

Prepped By:

Joseph B. LaPuebla

Date: 09/06/2019

Analyzed By:

Ghayath Elias

Date: 09/07/2019

Time: 1220

Re-Analyzed By:

Checked By:

Damien Warner

DE MC

Date:

E-Transmitted By: Damien Warner

25-100

Date: 09/07/2019

Date: 09/07/2019

Time: 1903

Logged Out By:

Date:

### Eastern Analytical Services, Inc.

4 Westchester Plaza - Elmsford, NY 10523

www.EASInc.com 914-592-8380

2642378

2642376 Mill Hill SIOO MILL HILL SIOO MILL HILL SIOO SIO 2642377 MILL HILL SION SIO 2642377 MILL HILL SION SIO 2

EAS Client:		nd Bond			No. of Sa	mples: 3	
	Westfie	hampton Ro ld, MA 0108	35		Turn- Around		2Hr □24Hr □30Hr 96Hr □5Day □Other
Analyte:	NOB NOB NOB Air 7	7047X	☐ Air ☐ Water ☐ Other		Shipped Via: State of Origin: Sample Disposition	V	Walk In US Exp Courier Other  J PA MA /T Other (Return)
Client Project Name/Numb		150439023	- mill	Hill Elementar	School	)	
Sampled By:	:	Brian Sirow Name (P	rint or Type)	— <i>7</i>	Sign	nature	96/H Wate
Submitted By	y:	Ian Adomei	t rint or Type)		Sign	Adomet	916/19 Date
Comments:		E-mail resu	lts to bsiro	wich@tighebond	l.com, JLLi	bby@tighebond.com	i, and
		jtolsen@tig	hebond.co	om		4	
Account Nu	umber:	ð	F	OR LABORATO	RY USE C	ONLY	
Received B	55V	Name (Frint	G_	Sign	ature	SEP (	6'19 16:27 ·
Prepped By				ι.			
Analyzed B Re-Analyze Checked By Logged-Out	ed By:						



Non-Friable Organically Bound (NOB) Materials - This term refers to a wide variety of building materials, such as vinyl or asphalt floor tile, resilient floor covering, mastic, asphalt shingle, roofing material, caulk, putty, etc.. Polarized Light Microscopy (PLM) analysis has limitations when NOB materials are encountered. These limitations, such as the inability to detect thin or extremely short fibers (less than 1 micrometer in length) generated during the milling process and/or the difficulty of separating asbestos fibers and bundles from the resinous matrix, may lead to false negatives or underestimates of the amount of asbestos fibers present in the sample. Recently, NYS DOH added Celling Tiles with Cellulose to the list of materials to be analyzed via the NOB methods. For these reasons, when analysis by PLM yields negative results for the presence of asbestos in NOB materials, The State of New York Department of Health (DOH) has issued the following requirements as of April 8, 2011: NOBs and ceiling tiles with cellulose must be analyzed by both of the gravimetric matrix reduction methods (ELAP Item 198.6 and 198.4) to be deemed negative for asbestos.

EAS is approved by the NYS-DOH to perform analysis of NOB materials via Transmission Electron Microscopy (ELAP Item 198.4). The superior resolution of Transmission Electron Microscopy can detect the presence of asbestos fibers well beyond the range of PLM. In addition, the use of selected-area electron diffraction (SAED) and energy-dispersive spectroscopy (EDS) can positively identify asbestos fibers in the sample. NOB samples determined to contain less than 1% asbestos via the TEM method, must also be analyzed via PLM (198.6) to verify the absence of large amphibole fibers which may not have been successfully transferred to the EM Grids.

The State of New Jersey recently adopted amendments to their regulations requiring gravimetric reduction followed by PLM and TEM analysis for NOB building materials. The regulations can be found at <a href="http://lwd.dol.state.ni.us/labor/lsse/laws/Asbestos">http://lwd.dol.state.ni.us/labor/lsse/laws/Asbestos</a> law.html#5a39.

Recently (April 3, 2011), Maine DEP revised their regulations to require gravimetric reduction of NOBs <a href="https://www1.maine.gov/dep/waste/asbestos/documents/asbbulksampanalysisprotocolsformYenabled.pdf">https://www1.maine.gov/dep/waste/asbestos/documents/asbbulksampanalysisprotocolsformYenabled.pdf</a>.

Vermiculite - As of July 9, 2013, NYS has issued new guidance on Vermiculite loose bulk materials and insulation materials which contain Vermiculite. The following quotes have been taken from their guidance letter: "If material is attic fill, block fill or other loose bulk vermiculite materials, it must be designated and treated as ACM. No approved analytical method currently exists to reliably confirm such vermiculite material as non-ACM." "Where thermal systems insulation (TSI), \*, or other presumed ACM (PACM) or miscellaneous suspect ACM contain 10% vermiculite or less, certified laboratories may use ELAP Certification Manual Item 198.1 to determine the asbestos content of the material. Where TSI, \*, or other PACM or miscellaneous suspect ACM contain greater than 10% vermiculite, Item 198.6 may be used to evaluate the asbestos content of the material; provided, however, that any test results using this method must be reported with the following conspicuous disclaimer:"

"This method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite."

See the EPA website at https://www.epa.gov/asbestos/protect-your-family-asbestos-contaminated-vermiculite-insulation

\* Surfacing Material Containing Vermiculite - As of May 6, 2016, NYS has issued new guidance regarding Surfacing Material containing vermiculite (essentially expanding the previous requirements for spray-on fireproofing to apply to all surfacing materials). If a surfacing material contains any vermiculite, it must be analyzed via NYS-DOH Method 198.8 (or RJ Lee Group Method 055) to be deemed negative for asbestos.

Surface Wipe Samples - Due to the fact that a large percentage of asbestos fibers released from deteriorating asbestos-containing materials or from improperly performed abatement activities are on the order of 5 micrometers or less and are near or below the resolution of a Polarized Light Microscope, Eastern Analytical Services, Inc. recommends that negative surface wipe samples be confirmed utilizing Transmission Electron Microscopy.

Point Counting - New York State Department of Health regulations require quantification of asbestos via the "Stratified Point Count" Method for all bulk samples originating from New York State. Please indicate the state of origin on the Chain of Custody form for all samples submitted to the laboratory. There is no additional charge for quantification using this method.

Layered Samples - NESHAP policy regarding layered bulk samples has changed. In the past, laboratories were required to analyze individual layers of multi-layered bulk samples separately, but report the results in terms of quantity of asbestos for the composite sample. This policy change requires that the layers be analyzed separately and reported as such. Additionally, materials are to be characterized as asbestos or non-asbestos based on the results of the individual layers.

As a result of this policy, EAS will be reporting the results of the individual layers of multi-layered bulk samples submitted for asbestos analysis UNLESS COMPOSITE RESULTS ARE SPECIFICALLY REQUESTED BY THE CLIENT. Additional layers for all bulk samples will be billed as separate samples.

If you have any questions concerning the above, please feel free to contact EAS.



# Eastern Analytical Services, Inc.

Phone (914) 592-8380

4 Westchester Plaza Elmsford, New York 10523-1610 Federal ID #11-2753797 Fax (914) 592-8956

CLIENT

Tighe & Bond

Account No.

53 Southampton Road

Westfield, MA 01085

INVOICE

Nº 1024436

DATE 09/09/2019

P.O. NUMBER

TERMS 1%/10, Net 30,

1.5% Int 30+

EAS Batch No. 1907396

040136

DATE	DESCRIPTION		PRICE
9/07/2019	Analytical Services ( 12 Hr Turn-Around )  RE: CPN 150439023 - Mill Hill Elementary School		
	Fiber Identification Polarized Light Microscopy		
	3 Samples @ \$13.00 /Sample		\$39.00
		Total	\$39.00
	Please Reference Invoice Number with Payment		



Tuesday, September 10, 2019

Attn: Ms. Jill Libby Tighe & Bond 213 Court St, Suite 1100 Middletown, CT 06457

Project ID: 1504390 MILL HILL ELEM

SDG ID: GCE00376

Sample ID#s: CE00376 - CE00383

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis/Shiller

**Laboratory Director** 

NELAC - #NY11301 CT Lab Registration #PH-0618 MA Lab Registration #M-CT007 ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003 NY Lab Registration #11301 PA Lab Registration #68-03530 RI Lab Registration #63

UT Lab Registration #CT00007 VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

### Sample Id Cross Reference

September 10, 2019

SDG I.D.: GCE00376

Project ID: 1504390 MILL HILL ELEM

Client Id	Lab Id	Matrix
MILLHILL S201 (0-0.5`)	CE00376	SOIL
MILLHILL S202 (0-0.5`)	CE00377	SOIL
MILLHILL S203 (0-0.5`)	CE00378	SOIL
MILLHILL S204 (0-0.5`)	CE00379	SOIL
MILLHILL S205 (0-0.5`)	CE00380	SOIL
MILLHILL S206 (0-0.5`)	CE00381	SOIL
MILLHILL S207 (0-0.5`)	CE00382	SOIL
MILLHILL S208 (0-0.5`)	CE00383	SOIL



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### **Analysis Report**

September 10, 2019

FOR: Attn: Ms. Jill Libby Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:09/09/1913:10Location Code:TIGHE-DASReceived by:B09/09/1917:54

Rush Request: 24 Hour Analyzed by: see "By" below

P.O.#: 1504390

Laboratory Data

SDG ID: GCE00376

Phoenix ID: CE00376

Project ID: 1504390 MILL HILL ELEM Client ID: MILLHILL S201 (0-0.5`)

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	80		%		09/09/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/09/19	B/NT/UI	L SW3545A
Polynuclear Aromatic	НС						
2-Methylnaphthalene	ND	290	ug/Kg	1	09/10/19	WB	SW8270D
Acenaphthene	ND	290	ug/Kg	1	09/10/19	WB	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	09/10/19	WB	SW8270D
Anthracene	ND	290	ug/Kg	1	09/10/19	WB	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(a)pyrene	350	290	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(b)fluoranthene	310	290	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(k)fluoranthene	290	290	ug/Kg	1	09/10/19	WB	SW8270D
Chrysene	320	290	ug/Kg	1	09/10/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	09/10/19	WB	SW8270D
Fluoranthene	560	290	ug/Kg	1	09/10/19	WB	SW8270D
Fluorene	ND	290	ug/Kg	1	09/10/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	290	290	ug/Kg	1	09/10/19	WB	SW8270D
Naphthalene	ND	290	ug/Kg	1	09/10/19	WB	SW8270D
Phenanthrene	310	290	ug/Kg	1	09/10/19	WB	SW8270D
Pyrene	550	290	ug/Kg	1	09/10/19	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	62		%	1	09/10/19	WB	30 - 130 %
% Nitrobenzene-d5	60		%	1	09/10/19	WB	30 - 130 %
% Terphenyl-d14	60		%	1	09/10/19	WB	30 - 130 %

Project ID: 1504390 MILL HILL ELEM Phoenix I.D.: CE00376

Client ID: MILLHILL S201 (0-0.5`)

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

**September 10, 2019** 



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

### **Analysis Report**

September 10, 2019

FOR: Attn: Ms. Jill Libby Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:09/09/1913:15Location Code:TIGHE-DASReceived by:B09/09/1917:54

Rush Request: 24 Hour Analyzed by: see "By" below

P.O.#: 1504390

Laboratory Data

SDG ID: GCE00376
Phoenix ID: CE00377

Project ID: 1504390 MILL HILL ELEM Client ID: MILLHILL S202 (0-0.5`)

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	84		%		09/09/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/09/19	B/NT/U	L SW3545A
Polynuclear Aromatic	HC_						
2-Methylnaphthalene	ND	270	ug/Kg	1	09/10/19	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	09/10/19	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	09/10/19	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	09/10/19	WB	SW8270D
Benz(a)anthracene	440	270	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(a)pyrene	520	270	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(b)fluoranthene	470	270	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(ghi)perylene	410	270	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(k)fluoranthene	430	270	ug/Kg	1	09/10/19	WB	SW8270D
Chrysene	520	270	ug/Kg	1	09/10/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	09/10/19	WB	SW8270D
Fluoranthene	880	270	ug/Kg	1	09/10/19	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	09/10/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	450	270	ug/Kg	1	09/10/19	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	09/10/19	WB	SW8270D
Phenanthrene	410	270	ug/Kg	1	09/10/19	WB	SW8270D
Pyrene	880	270	ug/Kg	1	09/10/19	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	58		%	1	09/10/19	WB	30 - 130 %
% Nitrobenzene-d5	62		%	1	09/10/19	WB	30 - 130 %
% Terphenyl-d14	55		%	1	09/10/19	WB	30 - 130 %
2-Methylnaphthalene Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(ghi)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene Naphthalene Phenanthrene Pyrene QA/QC Surrogates % 2-Fluorobiphenyl % Nitrobenzene-d5	ND ND ND ND 440 520 470 410 430 520 ND 880 ND 450 ND 410 880	270 270 270 270 270 270 270 270 270 270	ug/Kg	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	09/10/19 09/10/19 09/10/19 09/10/19 09/10/19 09/10/19 09/10/19 09/10/19 09/10/19 09/10/19 09/10/19 09/10/19 09/10/19 09/10/19 09/10/19 09/10/19 09/10/19	WB W	SW8270D SW8270D SW8270D SW8270D SW8270D SW8270D SW8270D SW8270D SW8270D SW8270D SW8270D SW8270D SW8270D SW8270D SW8270D SW8270D SW8270D SW8270D SW8270D SW8270D

Project ID: 1504390 MILL HILL ELEM

Client ID: MILLHILL S202 (0-0.5`)

Phoenix I.D.: CE00377

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

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Phyllis Shiller, Laboratory Director

**September 10, 2019** 



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

### **Analysis Report**

September 10, 2019

FOR: Attn: Ms. Jill Libby Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:09/09/1913:20Location Code:TIGHE-DASReceived by:B09/09/1917:54

Rush Request: 24 Hour Analyzed by: see "By" below

P.O.#: 1504390

Laboratory Data

SDG ID: GCE00376
Phoenix ID: CE00378

Project ID: 1504390 MILL HILL ELEM Client ID: MILLHILL S203 (0-0.5`)

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	83		%		09/09/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/09/19	B/NT/UL	_ SW3545A
Polynuclear Aromatic	HC						
2-Methylnaphthalene	 ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Benz(a)anthracene	580	280	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(a)pyrene	730	280	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(b)fluoranthene	630	280	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(ghi)perylene	600	280	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(k)fluoranthene	580	280	ug/Kg	1	09/10/19	WB	SW8270D
Chrysene	680	280	ug/Kg	1	09/10/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Fluoranthene	1100	280	ug/Kg	1	09/10/19	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	630	280	ug/Kg	1	09/10/19	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Phenanthrene	490	280	ug/Kg	1	09/10/19	WB	SW8270D
Pyrene	1100	280	ug/Kg	1	09/10/19	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	58		%	1	09/10/19	WB	30 - 130 %
% Nitrobenzene-d5	57		%	1	09/10/19	WB	30 - 130 %
% Terphenyl-d14	55		%	1	09/10/19	WB	30 - 130 %

Project ID: 1504390 MILL HILL ELEM Phoenix I.D.: CE00378

Client ID: MILLHILL S203 (0-0.5`)

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

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Phyllis Shiller, Laboratory Director

**September 10, 2019** 



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

### **Analysis Report**

September 10, 2019

FOR: Attn: Ms. Jill Libby Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:09/09/1913:25Location Code:TIGHE-DASReceived by:B09/09/1917:54

Rush Request: 24 Hour Analyzed by: see "By" below

P.O.#: Laboratory Data

SDG ID: GCE00376

Phoenix ID: CE00379

Project ID: 1504390 MILL HILL ELEM Client ID: MILLHILL S204 (0-0.5`)

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	88		%		09/09/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/09/19	B/NT/UI	_ SW3545A
Polynuclear Aromatic	HC_						
2-Methylnaphthalene	ND	260	ug/Kg	1	09/10/19	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	09/10/19	WB	SW8270D
Acenaphthylene	300	260	ug/Kg	1	09/10/19	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	09/10/19	WB	SW8270D
Benz(a)anthracene	660	260	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(a)pyrene	810	260	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(b)fluoranthene	720	260	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(ghi)perylene	570	260	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(k)fluoranthene	690	260	ug/Kg	1	09/10/19	WB	SW8270D
Chrysene	760	260	ug/Kg	1	09/10/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	09/10/19	WB	SW8270D
Fluoranthene	1400	260	ug/Kg	1	09/10/19	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	09/10/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	620	260	ug/Kg	1	09/10/19	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	09/10/19	WB	SW8270D
Phenanthrene	610	260	ug/Kg	1	09/10/19	WB	SW8270D
Pyrene	1300	260	ug/Kg	1	09/10/19	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	56		%	1	09/10/19	WB	30 - 130 %
% Nitrobenzene-d5	57		%	1	09/10/19	WB	30 - 130 %
% Terphenyl-d14	55		%	1	09/10/19	WB	30 - 130 %

Project ID: 1504390 MILL HILL ELEM Phoenix I.D.: CE00379

Client ID: MILLHILL S204 (0-0.5`)

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

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Phyllis Shiller, Laboratory Director

**September 10, 2019** 



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### **Analysis Report**

September 10, 2019

FOR: Attn: Ms. Jill Libby Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:09/09/1913:30Location Code:TIGHE-DASReceived by:B09/09/1917:54

Rush Request: 24 Hour Analyzed by: see "By" below

P.O.#: 1504390

<u>Laboratory Data</u> SDG ID: GCE00376

Phoenix ID: CE00380

Project ID: 1504390 MILL HILL ELEM Client ID: MILLHILL S205 (0-0.5`)

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	88		%		09/09/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/09/19	B/NT/UI	_ SW3545A
Polynuclear Aromatic	HC_						
2-Methylnaphthalene	ND	260	ug/Kg	1	09/10/19	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	09/10/19	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	09/10/19	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	09/10/19	WB	SW8270D
Benz(a)anthracene	280	260	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(a)pyrene	370	260	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(b)fluoranthene	350	260	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(ghi)perylene	310	260	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(k)fluoranthene	310	260	ug/Kg	1	09/10/19	WB	SW8270D
Chrysene	340	260	ug/Kg	1	09/10/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	09/10/19	WB	SW8270D
Fluoranthene	520	260	ug/Kg	1	09/10/19	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	09/10/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	350	260	ug/Kg	1	09/10/19	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	09/10/19	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	09/10/19	WB	SW8270D
Pyrene	540	260	ug/Kg	1	09/10/19	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	52		%	1	09/10/19	WB	30 - 130 %
% Nitrobenzene-d5	55		%	1	09/10/19	WB	30 - 130 %
% Terphenyl-d14	52		%	1	09/10/19	WB	30 - 130 %

Project ID: 1504390 MILL HILL ELEM

Client ID: MILLHILL S205 (0-0.5`)

Phoenix I.D.: CE00380

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

**September 10, 2019** 



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

### **Analysis Report**

September 10, 2019

FOR: Attn: Ms. Jill Libby Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:09/09/1913:35Location Code:TIGHE-DASReceived by:B09/09/1917:54

Rush Request: 24 Hour Analyzed by: see "By" below

P.O.#: 1504390

<u>Laboratory Data</u> SDG ID: GCE00376

Phoenix ID: CE00381

Project ID: 1504390 MILL HILL ELEM Client ID: MILLHILL S206 (0-0.5`)

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	82		%		09/09/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/09/19	B/NT/U	L SW3545A
Polynuclear Aromatic	HC						
2-Methylnaphthalene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Benz(a)anthracene	380	280	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(a)pyrene	490	280	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(b)fluoranthene	450	280	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(ghi)perylene	400	280	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(k)fluoranthene	410	280	ug/Kg	1	09/10/19	WB	SW8270D
Chrysene	480	280	ug/Kg	1	09/10/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Fluoranthene	750	280	ug/Kg	1	09/10/19	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	450	280	ug/Kg	1	09/10/19	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Phenanthrene	300	280	ug/Kg	1	09/10/19	WB	SW8270D
Pyrene	790	280	ug/Kg	1	09/10/19	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	57		%	1	09/10/19	WB	30 - 130 %
% Nitrobenzene-d5	53		%	1	09/10/19	WB	30 - 130 %
% Terphenyl-d14	57		%	1	09/10/19	WB	30 - 130 %

Project ID: 1504390 MILL HILL ELEM

Client ID: MILLHILL S206 (0-0.5`)

Phoenix I.D.: CE00381

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

**September 10, 2019** 



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

### **Analysis Report**

September 10, 2019

FOR: Attn: Ms. Jill Libby Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:09/09/1913:40Location Code:TIGHE-DASReceived by:B09/09/1917:54

Rush Request: 24 Hour Analyzed by: see "By" below

P.O.#: 1504390

<u>Laboratory Data</u> SDG ID: GCE00376

Phoenix ID: CE00382

Project ID: 1504390 MILL HILL ELEM Client ID: MILLHILL S207 (0-0.5`)

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	79		%		09/09/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/09/19	B/NT/UL	_ SW3545A
Polynuclear Aromatic	HC						
2-Methylnaphthalene	ND	290	ug/Kg	1	09/10/19	WB	SW8270D
Acenaphthene	ND	290	ug/Kg	1	09/10/19	WB	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	09/10/19	WB	SW8270D
Anthracene	ND	290	ug/Kg	1	09/10/19	WB	SW8270D
Benz(a)anthracene	450	290	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(a)pyrene	520	290	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(b)fluoranthene	460	290	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(ghi)perylene	390	290	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(k)fluoranthene	430	290	ug/Kg	1	09/10/19	WB	SW8270D
Chrysene	550	290	ug/Kg	1	09/10/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	09/10/19	WB	SW8270D
Fluoranthene	880	290	ug/Kg	1	09/10/19	WB	SW8270D
Fluorene	ND	290	ug/Kg	1	09/10/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	410	290	ug/Kg	1	09/10/19	WB	SW8270D
Naphthalene	ND	290	ug/Kg	1	09/10/19	WB	SW8270D
Phenanthrene	500	290	ug/Kg	1	09/10/19	WB	SW8270D
Pyrene	970	290	ug/Kg	1	09/10/19	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	59		%	1	09/10/19	WB	30 - 130 %
% Nitrobenzene-d5	56		%	1	09/10/19	WB	30 - 130 %
% Terphenyl-d14	58		%	1	09/10/19	WB	30 - 130 %

Project ID: 1504390 MILL HILL ELEM

Client ID: MILLHILL S207 (0-0.5`)

Phoenix I.D.: CE00382

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

**September 10, 2019** 



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### **Analysis Report**

September 10, 2019

FOR: Attn: Ms. Jill Libby Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:09/09/1913:45Location Code:TIGHE-DASReceived by:B09/09/1917:54

Rush Request: 24 Hour Analyzed by: see "By" below

Dooult

P.O.#: 1504390

Doromotor

<u>Laboratory Data</u> SDG ID: GCE00376

Dilution

Phoenix ID: CE00383

Project ID: 1504390 MILL HILL ELEM Client ID: MILLHILL S208 (0-0.5`)

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	84		%		09/09/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/09/19	B/NT/UL	_ SW3545A
Polynuclear Aromatic	HC_						
2-Methylnaphthalene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Benz(a)anthracene	390	280	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(a)pyrene	520	280	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(b)fluoranthene	460	280	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(ghi)perylene	440	280	ug/Kg	1	09/10/19	WB	SW8270D
Benzo(k)fluoranthene	410	280	ug/Kg	1	09/10/19	WB	SW8270D
Chrysene	440	280	ug/Kg	1	09/10/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Fluoranthene	710	280	ug/Kg	1	09/10/19	WB	SW8270D
luorene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
ndeno(1,2,3-cd)pyrene	470	280	ug/Kg	1	09/10/19	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	09/10/19	WB	SW8270D
Phenanthrene	310	280	ug/Kg	1	09/10/19	WB	SW8270D
Pyrene	710	280	ug/Kg	1	09/10/19	WB	SW8270D
QA/QC Surrogates							
6 2-Fluorobiphenyl	56		%	1	09/10/19	WB	30 - 130 %
% Nitrobenzene-d5	52		%	1	09/10/19	WB	30 - 130 %
% Terphenyl-d14	59		%	1	09/10/19	WB	30 - 130 %

Project ID: 1504390 MILL HILL ELEM Phoenix I.D.: CE00383

Client ID: MILLHILL S208 (0-0.5`)

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

**September 10, 2019** 



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### QA/QC Report

September 10, 2019

### QA/QC Data

SDG I.D.: GCE00376

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	Rec Limits	RPD Limits	
QA/QC Batch 496072 (ug/kg), CCE00383)	ΩC Samp	ole No: CE00374 (CE00376, CE	00377	CE003	78, CEC	0379,	CE0038	30, CE0	00381, C	E003	82,
Polynuclear Aromatic HC	- Soil										
2-Methylnaphthalene	ND	230	71	74	4.1	45	63	33.3	30 - 130	30	r
Acenaphthene	ND	230	79	82	3.7	51	68	28.6	30 - 130	30	
Acenaphthylene	ND	230	74	77	4.0	47	64	30.6	30 - 130	30	r
Anthracene	ND	230	78	80	2.5	51	68	28.6	30 - 130	30	
Benz(a)anthracene	ND	230	76	77	1.3	51	66	25.6	30 - 130	30	
Benzo(a)pyrene	ND	230	75	76	1.3	50	62	21.4	30 - 130	30	
Benzo(b)fluoranthene	ND	230	77	81	5.1	51	66	25.6	30 - 130	30	
Benzo(ghi)perylene	ND	230	79	80	1.3	52	59	12.6	30 - 130	30	
Benzo(k)fluoranthene	ND	230	79	77	2.6	52	63	19.1	30 - 130	30	
Chrysene	ND	230	76	78	2.6	53	68	24.8	30 - 130	30	
Dibenz(a,h)anthracene	ND	230	83	85	2.4	55	65	16.7	30 - 130	30	
Fluoranthene	ND	230	78	80	2.5	56	73	26.4	30 - 130	30	
Fluorene	ND	230	78	82	5.0	51	69	30.0	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	83	83	0.0	55	65	16.7	30 - 130	30	
Naphthalene	ND	230	71	73	2.8	43	60	33.0	30 - 130	30	r
Phenanthrene	ND	230	78	80	2.5	52	69	28.1	30 - 130	30	
Pyrene	ND	230	79	80	1.3	57	74	26.0	30 - 130	30	
% 2-Fluorobiphenyl	66	%	66	70	5.9	43	58	29.7	30 - 130	30	
% Nitrobenzene-d5	65	%	68	68	0.0	41	60	37.6	30 - 130	30	r
% Terphenyl-d14	62	%	64	66	3.1	46	60	26.4	30 - 130	30	
Comment:											

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director

September 10, 2019

r = This parameter is outside laboratory RPD specified recovery limits.

Tuesday, September 10, 2019 Criteria: CT: GAM, RC

### **Sample Criteria Exceedances Report**

GCE00376 - TIGHE-DAS

State: C1

RL Analysis
SampNo Acode Phoenix Analyte Criteria Units
Result RL Criteria Units

State: CT

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

<sup>\*\*\*</sup> No Data to Display \*\*\*



# REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. Client: Tighe & Bond

Project Location: 1504390 MILL HILL ELEM Project Number:

Laboratory Sample ID(s): CE00376-CE00383 Sampling Date(s): 9/9/2019

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8270

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes □ No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes □ No
1B	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	✓ Yes □ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	✓ Yes □ No □ NA
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	✓ Yes □ No
5	a) Were reporting limits specified or referenced on the chain-of-custody?	✓ Yes □ No
	b) Were these reporting limits met?	✓ Yes □ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes <b>☑</b> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.									
Authorized Signature:	Position: Assistant Lab Director								
Printed Name: Greg Lawrence	Date: Tuesday, September 10, 2019								
Name of Laboratory Phoenix Environmental Labs, Inc.									

This certification form is to be used for RCP methods only.



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



### **RCP Certification Report**

September 10, 2019 SDG I.D.: GCE00376

#### **SDG Comments**

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

#### **SVOA Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:

#### CHEM06 09/09/19-2

Wes Bryon, Chemist 09/09/19

CE00376, CE00377, CE00378, CE00379, CE00380, CE00381, CE00382, CE00383

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM06/6\_BN\_0909):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/0909\_48-6\_BN\_0909):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

#### QC (Batch Specific):

#### Batch 496072 (CE00374)

CE00376, CE00377, CE00378, CE00379, CE00380, CE00381, CE00382, CE00383

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

### **Temperature Narration**

The samples were received at 5.8C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes No Temp OC Pg Lot 1	Data Delivery/Contact Options:  Fax: Phone:    Phone:   File	Project	+//		Sug III OF							MACP Certification  MCP Certification  MWRA eSMART  MORE  MO	1.1   S-1 GW-2   S-1 GW-3   Oct.   Col.   Co	SW Protection  Other  were collected: CT  SURCHARGE APPLIES
CHAIN OF CUSTODY RECORD	587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040 Email: info@phoenixlabs.com Fax (860) 545-0823 Client Services (860) 645-8726	Project: 1504390 - M.II Hill Elem. Proj Report to: Jim Olgen, Jill Libby, Brian Sirowich Invoice to: Tight & Dong	Analysis (S)	Q. A.	10 10 10 10 10 10 10 10 10 10 10 10 10 1	***	222					RI (Residential)   CI   CI     CI     CI     CI     CI     CI     CI	GA Leachability   GA Mobility   GB Leachability   GB Mobility   GB Mobility   GB Mobility   GB Leachability   GB Residential DEC   GB Leachability   GB Le	GA-GW
	HIVIX FILE THE THE THE THE THE THE THE THE THE TH	Address: Tighe & Bood Address: 213 Court St suite 100 Middletown CT OG467	Sampler's Signature Sample - Information - Identification 9/9	aste Water Vipe OIL=Oil	SAMPLE # Identification Matrix Sampled Sampled Sampled	X 376 mill missolo-05") 5 919 1:10 X	378 Millian 5202(0-051)	20379 mill Him 52046-0.5) 1:25	38   Mill Hin 5206 10-0.5)	00 380 min 4in 52086-0.5) 4 4 11.45		Relinquished by: Date: Time: T	<b>₽</b> √	U(1)     1 Days*   3 Days*   Standard   Other   Other   Surcharge Applies



Monday, December 30, 2019

Attn: James Olsen Tighe & Bond 213 Court St, Suite 1100 Middletown, CT 06457

Project ID: FAIRFIELD-MILL HILL ELEMENTARY SCHOOL

**SDG ID:** GCE85692

Sample ID#s: CE85692 - CE85694, CE85696, CE85698, CE85700 - CE85701, CE85703,

CE85705, CE85707

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis/Shiller

**Laboratory Director** 

NELAC - #NY11301 CT Lab Registration #PH-0618 MA Lab Registration #M-CT007 ME Lab Registration #CT-007 NH Lab Registration #213693-A,B NJ Lab Registration #CT-003 NY Lab Registration #11301 PA Lab Registration #68-03530 RI Lab Registration #63 UT Lab Registration #CT00007 VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

### Sample Id Cross Reference

December 30, 2019

SDG I.D.: GCE85692

Project ID: FAIRFIELD-MILL HILL ELEMENTARY SCHOOL

Client Id	Lab Id	Matrix
MH-1 (0.5-1`)	CE85692	SOIL
MH-1 (1-1.5`)	CE85693	SOIL
MH-1S (0-0.5`)	CE85694	SOIL
MH-1N (0-0.5`)	CE85696	SOIL
MH-1E (0-0.5`)	CE85698	SOIL
MH-2 (0.5-1`)	CE85700	SOIL
MH-2 (1-1.5`)	CE85701	SOIL
MH-2E (0-0.5`)	CE85703	SOIL
MH-2N (0-0.5`)	CE85705	SOIL
MH-2W (0-0.5`)	CE85707	SOIL



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

December 30, 2019

FOR: Attn: James Olsen Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:12/11/1910:00Location Code:TIGHE-DASReceived by:SW12/12/1910:26

Rush Request: 24 Hour Analyzed by: see "By" below

P.O.#: 150439-027

Laboratory Data

SDG ID: GCE85692

Phoenix ID: CE85692

Project ID: FAIRFIELD-MILL HILL ELEMENTARY SCHOOL

Client ID: MH-1 (0.5-1`)

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	89		%		12/12/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				12/12/19	K/R/LA	SW3545A
SPLP Extraction for Organics	Completed				12/26/19	LS	SW1312
SPLP Semivolatiles (SIM) Ext.	Completed				12/27/19	JS/JS	SW3510C/SW3520C
Polynuclear Aromatic I	HC						
2-Methylnaphthalene	1100	260	ug/Kg	1	12/13/19	WB	SW8270D
Acenaphthene	870	260	ug/Kg	1	12/13/19	WB	SW8270D
Acenaphthylene	9000	2600	ug/Kg	10	12/13/19	WB	SW8270D
Anthracene	5100	260	ug/Kg	1	12/13/19	WB	SW8270D
Benz(a)anthracene	17000	2600	ug/Kg	10	12/13/19	WB	SW8270D
Benzo(a)pyrene	20000	2600	ug/Kg	10	12/13/19	WB	SW8270D
Benzo(b)fluoranthene	14000	2600	ug/Kg	10	12/13/19	WB	SW8270D
Benzo(ghi)perylene	15000	2600	ug/Kg	10	12/13/19	WB	SW8270D
Benzo(k)fluoranthene	3300	260	ug/Kg	1	12/13/19	WB	SW8270D
Chrysene	17000	2600	ug/Kg	10	12/13/19	WB	SW8270D
Dibenz(a,h)anthracene	3200	260	ug/Kg	1	12/13/19	WB	SW8270D
Fluoranthene	28000	2600	ug/Kg	10	12/13/19	WB	SW8270D
Fluorene	3600	260	ug/Kg	1	12/13/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	14000	2600	ug/Kg	10	12/13/19	WB	SW8270D
Naphthalene	1200	260	ug/Kg	1	12/13/19	WB	SW8270D
Phenanthrene	21000	2600	ug/Kg	10	12/13/19	WB	SW8270D
Pyrene	25000	2600	ug/Kg	10	12/13/19	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	56		%	1	12/13/19	WB	30 - 130 %
% Nitrobenzene-d5	66		%	1	12/13/19	WB	30 - 130 %
% Terphenyl-d14	55		%	1	12/13/19	WB	30 - 130 %
% 2-Fluorobiphenyl (10x)	Diluted Out		%	10	12/13/19	WB	30 - 130 %

Project ID: FAIRFIELD-MILL HILL ELEMENTARY SCHOOL

Client ID: MH-1 (0.5-1`)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% Nitrobenzene-d5 (10x)	Diluted Out		%	10	12/13/19	WB	30 - 130 %
% Terphenyl-d14 (10x)	Diluted Out		%	10	12/13/19	WB	30 - 130 %
SPLP Semivolatiles b	y SIM						
2-Methylnaphthalene	ND	0.50	ug/L	1	12/27/19	WB	SW8270D (SIM)
Acenaphthene	ND	0.50	ug/L	1	12/27/19	WB	SW8270D (SIM)
Acenaphthylene	0.38	0.30	ug/L	1	12/27/19	WB	SW8270D (SIM)
Anthracene	ND	0.50	ug/L	1	12/27/19	WB	SW8270D (SIM)
Benz(a)anthracene	0.22	0.05	ug/L	1	12/27/19	WB	SW8270D (SIM)
Benzo(a)pyrene	0.37	0.20	ug/L	1	12/27/19	WB	SW8270D (SIM)
Benzo(b)fluoranthene	0.27	0.07	ug/L	1	12/27/19	WB	SW8270D (SIM)
Benzo(ghi)perylene	0.59	0.48	ug/L	1	12/27/19	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.30	ug/L	1	12/27/19	WB	SW8270D (SIM)
Chrysene	ND	0.50	ug/L	1	12/27/19	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	0.18	0.10	ug/L	1	12/27/19	WB	SW8270D (SIM)
Fluoranthene	ND	0.50	ug/L	1	12/27/19	WB	SW8270D (SIM)
Fluorene	ND	0.50	ug/L	1	12/27/19	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.55	0.10	ug/L	1	12/27/19	WB	SW8270D (SIM)
Naphthalene	ND	0.50	ug/L	1	12/27/19	WB	SW8270D (SIM)
Phenanthrene	0.64	0.06	ug/L	1	12/27/19	WB	SW8270D (SIM)
Pyrene	ND	0.50	ug/L	1	12/27/19	WB	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	50		%	1	12/27/19	WB	30 - 130 %
% Nitrobenzene-d5	51		%	1	12/27/19	WB	30 - 130 %
% Terphenyl-d14	65		%	1	12/27/19	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

#### **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

December 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Phoenix I.D.: CE85692



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

December 30, 2019

FOR: Attn: James Olsen Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:12/11/1910:05Location Code:TIGHE-DASReceived by:SW12/12/1910:26

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439-027

Laboratory Data SDG ID: GCE85692

Phoenix ID: CE85693

Project ID: FAIRFIELD-MILL HILL ELEMENTARY SCHOOL

Client ID: MH-1 (1-1.5`)

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	79		%		12/12/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				12/12/19	K/R/LA	SW3545A
Polynuclear Aromatic	HC						
2-Methylnaphthalene	ND	290	ug/Kg	1	12/13/19	WB	SW8270D
Acenaphthene	ND	290	ug/Kg	1	12/13/19	WB	SW8270D
Acenaphthylene	2300	290	ug/Kg	1	12/13/19	WB	SW8270D
Anthracene	1600	290	ug/Kg	1	12/13/19	WB	SW8270D
Benz(a)anthracene	3800	290	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(a)pyrene	4200	290	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(b)fluoranthene	3300	290	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(ghi)perylene	2500	290	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(k)fluoranthene	2500	290	ug/Kg	1	12/13/19	WB	SW8270D
Chrysene	3700	290	ug/Kg	1	12/13/19	WB	SW8270D
Dibenz(a,h)anthracene	770	290	ug/Kg	1	12/13/19	WB	SW8270D
Fluoranthene	7400	290	ug/Kg	1	12/13/19	WB	SW8270D
Fluorene	780	290	ug/Kg	1	12/13/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	2800	290	ug/Kg	1	12/13/19	WB	SW8270D
Naphthalene	ND	290	ug/Kg	1	12/13/19	WB	SW8270D
Phenanthrene	3700	290	ug/Kg	1	12/13/19	WB	SW8270D
Pyrene	6900	290	ug/Kg	1	12/13/19	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	64		%	1	12/13/19	WB	30 - 130 %
% Nitrobenzene-d5	64		%	1	12/13/19	WB	30 - 130 %
% Terphenyl-d14	68		%	1	12/13/19	WB	30 - 130 %

Client ID: MH-1 (1-1.5`)

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

#### **Comments:**

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Phyllis Shiller, Laboratory Director

December 30, 2019



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

December 30, 2019

FOR: Attn: James Olsen Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

**Sample Information Custody Information Date** <u>Time</u> Collected by: 12/11/19 Matrix: SOIL 10:10 Received by: **TIGHE-DAS** SW 12/12/19 10:26 **Location Code:** 

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439-027

**Laboratory Data** 

SDG ID: GCE85692

Phoenix ID: CE85694

FAIRFIELD-MILL HILL ELEMENTARY SCHOOL Project ID:

Client ID: MH-1S (0-0.5`)

RL/ Parameter Result POI

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	90		%		12/12/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				12/12/19	K/R/LA	SW3545A
Polynuclear Aromatic	: HC						
2-Methylnaphthalene	ND	250	ug/Kg	1	12/13/19	AW	SW8270D
Acenaphthene	ND	250	ug/Kg	1	12/13/19	AW	SW8270D
Acenaphthylene	3200	250	ug/Kg	1	12/13/19	AW	SW8270D
Anthracene	1700	250	ug/Kg	1	12/13/19	AW	SW8270D
Benz(a)anthracene	5500	250	ug/Kg	1	12/13/19	AW	SW8270D
Benzo(a)pyrene	9600	2500	ug/Kg	10	12/16/19	AW	SW8270D
Benzo(b)fluoranthene	6700	250	ug/Kg	1	12/13/19	AW	SW8270D
Benzo(ghi)perylene	5400	250	ug/Kg	1	12/13/19	AW	SW8270D
Benzo(k)fluoranthene	4600	250	ug/Kg	1	12/13/19	AW	SW8270D
Chrysene	5700	250	ug/Kg	1	12/13/19	AW	SW8270D
Dibenz(a,h)anthracene	1300	250	ug/Kg	1	12/13/19	AW	SW8270D
Fluoranthene	8500	2500	ug/Kg	10	12/16/19	AW	SW8270D
Fluorene	810	250	ug/Kg	1	12/13/19	AW	SW8270D
Indeno(1,2,3-cd)pyrene	5300	250	ug/Kg	1	12/13/19	AW	SW8270D
Naphthalene	300	250	ug/Kg	1	12/13/19	AW	SW8270D
Phenanthrene	3800	250	ug/Kg	1	12/13/19	AW	SW8270D
Pyrene	8300	2500	ug/Kg	10	12/16/19	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	12/13/19	AW	30 - 130 %
% Nitrobenzene-d5	70		%	1	12/13/19	AW	30 - 130 %
% Terphenyl-d14	67		%	1	12/13/19	AW	30 - 130 %
% 2-Fluorobiphenyl (10x)	Diluted Out		%	10	12/16/19	AW	30 - 130 %
% Nitrobenzene-d5 (10x)	Diluted Out		%	10	12/16/19	AW	30 - 130 %
% Terphenyl-d14 (10x)	Diluted Out		%	10	12/16/19	AW	30 - 130 %

Client ID: MH-1S (0-0.5`)

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

#### **Comments:**

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Phyllis Shiller, Laboratory Director

December 30, 2019



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

December 30, 2019

FOR: Attn: James Olsen Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:12/11/1910:20Location Code:TIGHE-DASReceived by:SW12/12/1910:26

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439-027

Laboratory Data

SDG ID: GCE85692
Phoenix ID: CE85696

Project ID: FAIRFIELD-MILL HILL ELEMENTARY SCHOOL

Client ID: MH-1N (0-0.5`)

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	89		%		12/12/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				12/12/19	K/R/LA	SW3545A
Polynuclear Aromatic	HC_						
2-Methylnaphthalene	ND	260	ug/Kg	1	12/13/19	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	12/13/19	WB	SW8270D
Acenaphthylene	4000	260	ug/Kg	1	12/13/19	WB	SW8270D
Anthracene	2400	260	ug/Kg	1	12/13/19	WB	SW8270D
Benz(a)anthracene	3800	260	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(a)pyrene	5300	260	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(b)fluoranthene	4400	260	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(ghi)perylene	3600	260	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(k)fluoranthene	3100	260	ug/Kg	1	12/13/19	WB	SW8270D
Chrysene	3900	260	ug/Kg	1	12/13/19	WB	SW8270D
Dibenz(a,h)anthracene	1200	260	ug/Kg	1	12/13/19	WB	SW8270D
Fluoranthene	5700	260	ug/Kg	1	12/13/19	WB	SW8270D
Fluorene	1000	260	ug/Kg	1	12/13/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	3700	260	ug/Kg	1	12/13/19	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	12/13/19	WB	SW8270D
Phenanthrene	3200	260	ug/Kg	1	12/13/19	WB	SW8270D
Pyrene	5800	260	ug/Kg	1	12/13/19	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	63		%	1	12/13/19	WB	30 - 130 %
% Nitrobenzene-d5	63		%	1	12/13/19	WB	30 - 130 %
% Terphenyl-d14	73		%	1	12/13/19	WB	30 - 130 %

Client ID: MH-1N (0-0.5`)

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

#### **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

December 30, 2019



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

December 30, 2019

FOR: Attn: James Olsen Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:12/11/1910:30Location Code:TIGHE-DASReceived by:SW12/12/1910:26

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439-027

Laboratory Data

SDG ID: GCE85692 Phoenix ID: CE85698

FAIRFIELD-MILL HILL ELEMENTARY SCHOOL

Client ID: MH-1E (0-0.5`)

Project ID:

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	78		%		12/12/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				12/12/19	K/R/LA	SW3545A
Polynuclear Aromatic	HC_						
2-Methylnaphthalene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Acenaphthene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Anthracene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Chrysene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Fluoranthene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Fluorene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Naphthalene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Phenanthrene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Pyrene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	60		%	1	12/13/19	WB	30 - 130 %
% Nitrobenzene-d5	55		%	1	12/13/19	WB	30 - 130 %
% Terphenyl-d14	65		%	1	12/13/19	WB	30 - 130 %

Client ID: MH-1E (0-0.5`)

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

#### **Comments:**

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Phyllis Shiller, Laboratory Director

December 30, 2019



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

December 30, 2019

FOR: Attn: James Olsen Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:12/11/1910:40Location Code:TIGHE-DASReceived by:SW12/12/1910:26

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439-027

Laboratory Data

SDG ID: GCE85692

Phoenix ID: CE85700

Project ID: FAIRFIELD-MILL HILL ELEMENTARY SCHOOL

Client ID: MH-2 (0.5-1`)

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	86		%		12/12/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				12/12/19	K/R/LA	SW3545A
Polynuclear Aromatic	: HC						
2-Methylnaphthalene	320	270	ug/Kg	1	12/13/19	WB	SW8270D
Acenaphthene	380	270	ug/Kg	1	12/13/19	WB	SW8270D
Acenaphthylene	4900	270	ug/Kg	1	12/13/19	WB	SW8270D
Anthracene	3200	270	ug/Kg	1	12/13/19	WB	SW8270D
Benz(a)anthracene	7000	270	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(a)pyrene	11000	2700	ug/Kg	10	12/13/19	WB	SW8270D
Benzo(b)fluoranthene	7400	2700	ug/Kg	10	12/13/19	WB	SW8270D
Benzo(ghi)perylene	6100	270	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(k)fluoranthene	4300	270	ug/Kg	1	12/13/19	WB	SW8270D
Chrysene	7400	270	ug/Kg	1	12/13/19	WB	SW8270D
Dibenz(a,h)anthracene	2100	270	ug/Kg	1	12/13/19	WB	SW8270D
Fluoranthene	13000	2700	ug/Kg	10	12/13/19	WB	SW8270D
Fluorene	1700	270	ug/Kg	1	12/13/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	6000	270	ug/Kg	1	12/13/19	WB	SW8270D
Naphthalene	320	270	ug/Kg	1	12/13/19	WB	SW8270D
Phenanthrene	6200	270	ug/Kg	1	12/13/19	WB	SW8270D
Pyrene	13000	2700	ug/Kg	10	12/13/19	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	57		%	1	12/13/19	WB	30 - 130 %
% Nitrobenzene-d5	49		%	1	12/13/19	WB	30 - 130 %
% Terphenyl-d14	63		%	1	12/13/19	WB	30 - 130 %
% 2-Fluorobiphenyl (10x)	Diluted Out		%	10	12/13/19	WB	30 - 130 %
% Nitrobenzene-d5 (10x)	Diluted Out		%	10	12/13/19	WB	30 - 130 %
% Terphenyl-d14 (10x)	Diluted Out		%	10	12/13/19	WB	30 - 130 %

Client ID: MH-2 (0.5-1`)

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

#### **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

December 30, 2019



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

December 30, 2019

FOR: Attn: James Olsen Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:12/11/1910:45Location Code:TIGHE-DASReceived by:SW12/12/1910:26

Rush Request: 24 Hour Analyzed by: see "By" below

P.O.#: 150439-027

Laboratory Data SDG ID: GCE85692

Phoenix ID: CE85701

Project ID: FAIRFIELD-MILL HILL ELEMENTARY SCHOOL

Client ID: MH-2 (1-1.5`)

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	90		%		12/12/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				12/12/19	K/R/LA	SW3545A
SPLP Extraction for Organics	Completed				12/26/19	LS	SW1312
SPLP Semivolatiles (SIM) Ext.	Completed				12/27/19	JS/JS	SW3510C/SW3520C
Polynuclear Aromatic	HC						
2-Methylnaphthalene	1300	250	ug/Kg	1	12/13/19	WB	SW8270D
Acenaphthene	1100 250		ug/Kg	1	12/13/19	WB	SW8270D
Acenaphthylene	11000	2500	ug/Kg	10	12/13/19	WB	SW8270D
Anthracene	7100	250	ug/Kg	1	12/13/19	WB	SW8270D
Benz(a)anthracene	26000	2500	ug/Kg	10	12/13/19	WB	SW8270D
Benzo(a)pyrene	31000	2500	ug/Kg	10	12/13/19	WB	SW8270D
Benzo(b)fluoranthene	24000	2500	ug/Kg	10	12/13/19	WB	SW8270D
Benzo(ghi)perylene	18000	2500	ug/Kg	10	12/13/19	WB	SW8270D
Benzo(k)fluoranthene	4700	250	ug/Kg	1	12/13/19	WB	SW8270D
Chrysene	25000	2500	ug/Kg	10	12/13/19	WB	SW8270D
Dibenz(a,h)anthracene	5400	250	ug/Kg	1	12/13/19	WB	SW8270D
Fluoranthene	44000	2500	ug/Kg	10	12/13/19	WB	SW8270D
Fluorene	4900	250	ug/Kg	1	12/13/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	20000	2500	ug/Kg	10	12/13/19	WB	SW8270D
Naphthalene	1300	250	ug/Kg	1	12/13/19	WB	SW8270D
Phenanthrene	31000	2500	ug/Kg	10	12/13/19	WB	SW8270D
Pyrene	39000	2500	ug/Kg	10	12/13/19	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	48		%	1	12/13/19	WB	30 - 130 %
% Nitrobenzene-d5	52		%	1	12/13/19	WB	30 - 130 %
% Terphenyl-d14	47		%	1	12/13/19	WB	30 - 130 %
% 2-Fluorobiphenyl (10x)	Diluted Out		%	10	12/13/19	WB	30 - 130 %

Project ID: FAIRFIELD-MILL HILL ELEMENTARY SCHOOL

Client ID: MH-2 (1-1.5`)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% Nitrobenzene-d5 (10x)	Diluted Out		%	10	12/13/19	WB	30 - 130 %
% Terphenyl-d14 (10x)	Diluted Out		%	10	12/13/19	WB	30 - 130 %
SPLP Semivolatiles b	y SIM						
2-Methylnaphthalene	0.63	0.50	ug/L	1	12/27/19	WB	SW8270D (SIM)
Acenaphthene	0.66	0.50	ug/L	1	12/27/19	WB	SW8270D (SIM)
Acenaphthylene	1.2	0.30	ug/L	1	12/27/19	WB	SW8270D (SIM)
Anthracene	0.85	0.50	ug/L	1	12/27/19	WB	SW8270D (SIM)
Benz(a)anthracene	0.70	0.05	ug/L	1	12/27/19	WB	SW8270D (SIM)
Benzo(a)pyrene	1.2	0.20	ug/L	1	12/27/19	WB	SW8270D (SIM)
Benzo(b)fluoranthene	0.89	0.07	ug/L	1	12/27/19	WB	SW8270D (SIM)
Benzo(ghi)perylene	1.2	0.48	ug/L	1	12/27/19	WB	SW8270D (SIM)
Benzo(k)fluoranthene	0.87	0.30	ug/L	1	12/27/19	WB	SW8270D (SIM)
Chrysene	0.72	0.50	ug/L	1	12/27/19	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	0.14	0.10	ug/L	1	12/27/19	WB	SW8270D (SIM)
Fluoranthene	1.8	0.50	ug/L	1	12/27/19	WB	SW8270D (SIM)
Fluorene	1.5	0.50	ug/L	1	12/27/19	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	1.4	0.10	ug/L	1	12/27/19	WB	SW8270D (SIM)
Naphthalene	1.5	0.50	ug/L	1	12/27/19	WB	SW8270D (SIM)
Phenanthrene	3.3	0.06	ug/L	1	12/27/19	WB	SW8270D (SIM)
Pyrene	1.5	0.50	ug/L	1	12/27/19	WB	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	46		%	1	12/27/19	WB	30 - 130 %
% Nitrobenzene-d5	50		%	1	12/27/19	WB	30 - 130 %
% Terphenyl-d14	61		%	1	12/27/19	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

#### **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

December 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Phoenix I.D.: CE85701



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

December 30, 2019

FOR: Attn: James Olsen Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:12/11/1911:00Location Code:TIGHE-DASReceived by:SW12/12/1910:26

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439-027

Laboratory Data SDG ID: GCE85692

Phoenix ID: CE85703

Project ID: FAIRFIELD-MILL HILL ELEMENTARY SCHOOL

Client ID: MH-2E (0-0.5`)

Result	PQL	Units	Dilution	Date/Time	Ву	Reference
80		%		12/12/19	VT	SW846-%Solid
Completed				12/12/19	K/R/LA	SW3545A
HC						
ND	290	ug/Kg	1	12/13/19	WB	SW8270D
ND	290	ug/Kg	1	12/13/19	WB	SW8270D
750	290	ug/Kg	1	12/13/19	WB	SW8270D
440	290	ug/Kg	1	12/13/19	WB	SW8270D
900	290	ug/Kg	1	12/13/19	WB	SW8270D
2300	290	ug/Kg	1	12/13/19	WB	SW8270D
1500	290	ug/Kg	1	12/13/19	WB	SW8270D
1400	290	ug/Kg	1	12/13/19	WB	SW8270D
1200	290	ug/Kg	1	12/13/19	WB	SW8270D
980	290	ug/Kg	1	12/13/19	WB	SW8270D
400	290	ug/Kg	1	12/13/19	WB	SW8270D
1700	290	ug/Kg	1	12/13/19	WB	SW8270D
ND	290	ug/Kg	1	12/13/19	WB	SW8270D
1700	290	ug/Kg	1	12/13/19	WB	SW8270D
ND	290	ug/Kg	1	12/13/19	WB	SW8270D
960	290	ug/Kg	1	12/13/19	WB	SW8270D
1700	290	ug/Kg	1	12/13/19	WB	SW8270D
51		%	1	12/13/19	WB	30 - 130 %
36		%	1	12/13/19	WB	30 - 130 %
65		%	1	12/13/19	WB	30 - 130 %
	80 Completed HC ND ND 750 440 900 2300 1500 1400 1200 980 400 1700 ND 1700 ND 960 1700	80 Completed  HC  ND 290 ND 290 750 290 440 290 900 290 2300 290 1500 290 1400 290 1200 290 980 290 400 290 1700 290 ND 290 ND 290 ND 290 ND 290 1700 290 ND 290 1700 290 ND 290 1700 290 ND 290 1700 290 1700 290 1700 290 1700 290 1700 290 1700 290 1700 290 1700 290 1700 290	80	RO Completed  HC  ND 290 ug/Kg 1 ND 290 ug/Kg 1 750 290 ug/Kg 1 440 290 ug/Kg 1 900 290 ug/Kg 1 2300 290 ug/Kg 1 1500 290 ug/Kg 1 1400 290 ug/Kg 1 1200 290 ug/Kg 1 1200 290 ug/Kg 1 1700 290 ug/Kg 1	80 % 12/12/19  HC  ND 290 ug/Kg 1 12/13/19  ND 290 ug/Kg 1 12/13/19  750 290 ug/Kg 1 12/13/19  440 290 ug/Kg 1 12/13/19  900 290 ug/Kg 1 12/13/19  2300 290 ug/Kg 1 12/13/19  1500 290 ug/Kg 1 12/13/19  1400 290 ug/Kg 1 12/13/19  1400 290 ug/Kg 1 12/13/19  1200 290 ug/Kg 1 12/13/19  1700 290 ug/Kg 1 12/13/19  1700 290 ug/Kg 1 12/13/19  ND 290 ug/Kg 1 12/13/19	80 % 12/12/19 VT Completed 12/12/19 K/R/LA  HC  ND 290 ug/Kg 1 12/13/19 WB ND 290 ug/Kg 1 12/13/19 WB 750 290 ug/Kg 1 12/13/19 WB 440 290 ug/Kg 1 12/13/19 WB 900 290 ug/Kg 1 12/13/19 WB 2300 290 ug/Kg 1 12/13/19 WB 1500 290 ug/Kg 1 12/13/19 WB 1500 290 ug/Kg 1 12/13/19 WB 1400 290 ug/Kg 1 12/13/19 WB 1400 290 ug/Kg 1 12/13/19 WB 1400 290 ug/Kg 1 12/13/19 WB 1700 290 ug/Kg 1 12/13/19 WB

Client ID: MH-2E (0-0.5`)

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

#### **Comments:**

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Phyllis Shiller, Laboratory Director

December 30, 2019



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

December 30, 2019

FOR: Attn: James Olsen Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:12/11/1911:10Location Code:TIGHE-DASReceived by:SW12/12/1910:26

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439-027

Laboratory Data

SDG ID: GCE85692

Phoenix ID: CE85705

Project ID: FAIRFIELD-MILL HILL ELEMENTARY SCHOOL

Client ID: MH-2N (0-0.5`)

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	78		%		12/12/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				12/12/19	K/R/LA	SW3545A
Polynuclear Aromatic	HC						
2-Methylnaphthalene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Acenaphthene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Anthracene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Chrysene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Fluoranthene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Fluorene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Naphthalene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Phenanthrene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
Pyrene	ND	300	ug/Kg	1	12/13/19	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	58		%	1	12/13/19	WB	30 - 130 %
% Nitrobenzene-d5	56		%	1	12/13/19	WB	30 - 130 %
% Terphenyl-d14	57		%	1	12/13/19	WB	30 - 130 %

Client ID: MH-2N (0-0.5`)

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director

December 30, 2019



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

December 30, 2019

FOR: Attn: James Olsen Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:12/11/1911:20Location Code:TIGHE-DASReceived by:SW12/12/1910:26

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439-027

Laboratory Data

SDG ID: GCE85692

Phoenix ID: CE85707

Project ID: FAIRFIELD-MILL HILL ELEMENTARY SCHOOL

Client ID: MH-2W (0-0.5`)

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	81		%		12/12/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				12/12/19	K/R/LA	SW3545A
Polynuclear Aromatic	HC						
2-Methylnaphthalene	ND	290	ug/Kg	1	12/13/19	WB	SW8270D
Acenaphthene	ND	290	ug/Kg	1	12/13/19	WB	SW8270D
Acenaphthylene	640	290	ug/Kg	1	12/13/19	WB	SW8270D
Anthracene	360	290	ug/Kg	1	12/13/19	WB	SW8270D
Benz(a)anthracene	1100	290	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(a)pyrene	1400	290	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(b)fluoranthene	1100	290	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(ghi)perylene	1200	290	ug/Kg	1	12/13/19	WB	SW8270D
Benzo(k)fluoranthene	930	290	ug/Kg	1	12/13/19	WB	SW8270D
Chrysene	1200	290	ug/Kg	1	12/13/19	WB	SW8270D
Dibenz(a,h)anthracene	330	290	ug/Kg	1	12/13/19	WB	SW8270D
Fluoranthene	1900	290	ug/Kg	1	12/13/19	WB	SW8270D
Fluorene	ND	290	ug/Kg	1	12/13/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	1400	290	ug/Kg	1	12/13/19	WB	SW8270D
Naphthalene	ND	290	ug/Kg	1	12/13/19	WB	SW8270D
Phenanthrene	830	290	ug/Kg	1	12/13/19	WB	SW8270D
Pyrene	2000	290	ug/Kg	1	12/13/19	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	51		%	1	12/13/19	WB	30 - 130 %
% Nitrobenzene-d5	34		%	1	12/13/19	WB	30 - 130 %
% Terphenyl-d14	66		%	1	12/13/19	WB	30 - 130 %

Client ID: MH-2W (0-0.5`)

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

#### **Comments:**

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Phyllis Shiller, Laboratory Director

December 30, 2019



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

December 30, 2019

# QA/QC Data

SDG I.D.: GCE85692

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	Rec Limits	RPD Limits	
QA/QC Batch 509991 (ug/kg)		ple No: CE85705 (CE8569)	2, CE85693,	CE856	94, CE8	35696,	CE8569	98, CE8	35700, C	E8570	01,
CE85703, CE85705, CE8570	7)										
Polynuclear Aromatic H	<u>C - Soil</u>										
2-Methylnaphthalene	ND	230	62	60	3.3	34	39	13.7	30 - 130	30	
Acenaphthene	ND	230	66	65	1.5	38	41	7.6	30 - 130	30	
Acenaphthylene	ND	230	66	65	1.5	45	44	2.2	30 - 130	30	
Anthracene	ND	230	67	68	1.5	47	43	8.9	30 - 130	30	
Benz(a)anthracene	ND	230	71	72	1.4	77	53	36.9	30 - 130	30	r
Benzo(a)pyrene	ND	230	75	76	1.3	75	54	32.6	30 - 130	30	r
Benzo(b)fluoranthene	ND	230	68	71	4.3	65	51	24.1	30 - 130	30	
Benzo(ghi)perylene	ND	230	72	75	4.1	45	37	19.5	30 - 130	30	
Benzo(k)fluoranthene	ND	230	71	67	5.8	62	47	27.5	30 - 130	30	
Chrysene	ND	230	69	70	1.4	77	53	36.9	30 - 130	30	r
Dibenz(a,h)anthracene	ND	230	79	82	3.7	44	42	4.7	30 - 130	30	
Fluoranthene	ND	230	68	68	0.0	92	57	47.0	30 - 130	30	r
Fluorene	ND	230	65	65	0.0	44	42	4.7	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	71	74	4.1	47	38	21.2	30 - 130	30	
Naphthalene	ND	230	58	57	1.7	29	35	18.8	30 - 130	30	m
Phenanthrene	ND	230	65	66	1.5	77	50	42.5	30 - 130	30	r
Pyrene	ND	230	70	70	0.0	95	59	46.8	30 - 130	30	r
% 2-Fluorobiphenyl	55	%	61	60	1.7	33	37	11.4	30 - 130	30	
% Nitrobenzene-d5	53	%	61	58	5.0	29	36	21.5	30 - 130	30	m
% Terphenyl-d14	52	%	59	59	0.0	31	35	12.1	30 - 130	30	
Comment:											
4 1 1111 1 2 2 2 2 1 1 2 2 2 2 4											

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 511948 (ug/L), QC Sample No: CE85692 (CE85692, CE85701)

Semivolatiles	hy SIM	$P\Delta H$	- SDI D
<b>Jennyolanies</b>	DV JIIVI,	1 711	- JI LI

Semivolatiles by Silvi, PAH	<u>- 5PI</u>	<u>_P</u>					
2-Methylnaphthalene	ND	0.50	69	72	4.3	30 - 130	20
Acenaphthene	ND	0.50	63	66	4.7	30 - 130	20
Acenaphthylene	ND	0.30	58	61	5.0	30 - 130	20
Anthracene	ND	0.50	67	70	4.4	30 - 130	20
Benz(a)anthracene	ND	0.05	70	72	2.8	30 - 130	20
Benzo(a)pyrene	ND	0.20	76	78	2.6	30 - 130	20
Benzo(b)fluoranthene	ND	0.07	71	72	1.4	30 - 130	20
Benzo(ghi)perylene	ND	0.48	65	71	8.8	30 - 130	20
Benzo(k)fluoranthene	ND	0.30	75	77	2.6	30 - 130	20
Chrysene	ND	0.50	68	70	2.9	30 - 130	20
Dibenz(a,h)anthracene	ND	0.10	83	89	7.0	30 - 130	20
Fluoranthene	ND	0.50	69	75	8.3	30 - 130	20
Fluorene	ND	0.50	65	68	4.5	30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.10	108	115	6.3	30 - 130	20
Naphthalene	ND	0.50	49	51	4.0	30 - 130	20

### QA/QC Data

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Phenanthrene	ND	0.06	62	64	3.2				30 - 130	20
Pyrene	ND	0.50	71	79	10.7				30 - 130	20
% 2-Fluorobiphenyl	54	%	52	54	3.8				30 - 130	20
% Nitrobenzene-d5	60	%	58	60	3.4				30 - 130	20
% Terphenyl-d14	71	%	70	75	6.9				30 - 130	20
Comment:										

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director December 30, 2019

SDG I.D.: GCE85692

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

# **Sample Criteria Exceedances Report**

Criteria: CT: GAM, GBM, I/C, RC

State: CT

State.	CI						RL	Analysis
SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	Criteria	Units
CE85692	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC I/C (mg/kg) / APS Organics	3200	260	1000	1000	ug/Kg
CE85692	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC I/C (mg/kg) / APS Organics	14000	2600	7800	7800	ug/Kg
CE85692	\$8100SMR	Benz(a)anthracene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	17000	2600	7800	7800	ug/Kg
CE85692	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	20000	2600	1000	1000	ug/Kg
CE85692	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	14000	2600	7800	7800	ug/Kg
CE85692	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	14000	2600	1000	1000	ug/Kg
CE85692	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC RES (mg/kg) / APS Organics	3200	260	1000	1000	ug/Kg
CE85692	\$8100SMR	Benzo(ghi)perylene	CT / RSR DEC RES (mg/kg) / APS Organics	15000	2600	8400	8400	ug/Kg
CE85692	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	17000	2600	1000	1000	ug/Kg
CE85692	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	20000	2600	1000	1000	ug/Kg
CE85692	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	14000	2600	1000	1000	ug/Kg
CE85692	\$8100SMR	2-Methylnaphthalene	CT / RSR GA,GAA (mg/kg) / APS Organics	1100	260	560	560	ug/Kg
CE85692	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	14000	2600	1000	1000	ug/Kg
CE85692	\$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	15000	2600	1000	1000	ug/Kg
CE85692	\$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	17000	2600	1000	1000	ug/Kg
CE85692	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR GA,GAA (mg/kg) / APS Organics	3200	260	1000	1000	ug/Kg
CE85692	\$8100SMR	Pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	25000	2600	4000	4000	ug/Kg
CE85692	\$8100SMR	Phenanthrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	21000	2600	4000	4000	ug/Kg
CE85692	\$8100SMR	Acenaphthylene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	9000	2600	8400	8400	ug/Kg
CE85692	\$8100SMR	Fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	28000	2600	5600	5600	ug/Kg
CE85692	\$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	20000	2600	1000	1000	ug/Kg
CE85692	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	14000	2600	1000	1000	ug/Kg
CE85692	\$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	17000	2600	1000	1000	ug/Kg
CE85692	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	3300	260	1000	1000	ug/Kg
CE85692	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR GB (mg/kg) / APS Organics	3200	260	1000	1000	ug/Kg
CE85692	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	17000	2600	1000	1000	ug/Kg
CE85692	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	15000	2600	1000	1000	ug/Kg
CE85692	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	14000	2600	1000	1000	ug/Kg
CE85692	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	20000	2600	1000	1000	ug/Kg
CE85692	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	14000	2600	1000	1000	ug/Kg
CE85692	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	17000	2600	1000	1000	ug/Kg
CE85692	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	3300	260	1000	1000	ug/Kg
CE85693	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	4200	290	1000	1000	ug/Kg
CE85693	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	2800	290	1000	1000	ug/Kg
CE85693	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	4200	290	1000	1000	ug/Kg
CE85693	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3300	290	1000	1000	ug/Kg
CE85693	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3800	290	1000	1000	ug/Kg
CE85693	\$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	2500	290	1000	1000	ug/Kg
CE85693	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	2800	290	1000	1000	ug/Kg
CE85693	\$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	3700	290	1000	1000	ug/Kg
CE85693	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	2500	290	1000	1000	ug/Kg

# **Sample Criteria Exceedances Report**

Criteria: CT: GAM, GBM, I/C, RC

State: CT

State.	CI						RL	Analysis
SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	Criteria	Units
CE85693	\$8100SMR	Pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	6900	290	4000	4000	ug/Kg
CE85693	\$8100SMR	Fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	7400	290	5600	5600	ug/Kg
CE85693	\$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	3800	290	1000	1000	ug/Kg
CE85693	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	3300	290	1000	1000	ug/Kg
CE85693	\$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	4200	290	1000	1000	ug/Kg
CE85693	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	3700	290	1000	1000	ug/Kg
CE85693	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	2800	290	1000	1000	ug/Kg
CE85693	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	2500	290	1000	1000	ug/Kg
CE85693	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	2500	290	1000	1000	ug/Kg
CE85693	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	4200	290	1000	1000	ug/Kg
CE85693	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	3800	290	1000	1000	ug/Kg
CE85693	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	3300	290	1000	1000	ug/Kg
CE85694	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC I/C (mg/kg) / APS Organics	1300	250	1000	1000	ug/Kg
CE85694	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	9600	2500	1000	1000	ug/Kg
CE85694	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	5300	250	1000	1000	ug/Kg
CE85694	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC RES (mg/kg) / APS Organics	1300	250	1000	1000	ug/Kg
CE85694	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	6700	250	1000	1000	ug/Kg
CE85694	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	9600	2500	1000	1000	ug/Kg
CE85694	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	5500	250	1000	1000	ug/Kg
CE85694	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR GA,GAA (mg/kg) / APS Organics	1300	250	1000	1000	ug/Kg
CE85694	\$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	5700	250	1000	1000	ug/Kg
CE85694	\$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	5400	250	1000	1000	ug/Kg
CE85694	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	5300	250	1000	1000	ug/Kg
CE85694	\$8100SMR	Fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	8500	2500	5600	5600	ug/Kg
CE85694	\$8100SMR	Pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	8300	2500	4000	4000	ug/Kg
CE85694	\$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	9600	2500	1000	1000	ug/Kg
CE85694	\$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	5500	250	1000	1000	ug/Kg
CE85694	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	6700	250	1000	1000	ug/Kg
CE85694	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	4600	250	1000	1000	ug/Kg
CE85694	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	5400	250	1000	1000	ug/Kg
CE85694	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	5700	250	1000	1000	ug/Kg
CE85694	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR GB (mg/kg) / APS Organics	1300	250	1000	1000	ug/Kg
CE85694	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	5300	250	1000	1000	ug/Kg
CE85694	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	9600	2500	1000	1000	ug/Kg
CE85694	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	4600	250	1000	1000	ug/Kg
CE85694	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	6700	250	1000	1000	ug/Kg
CE85694	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	5500	250	1000	1000	ug/Kg
CE85696	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC I/C (mg/kg) / APS Organics	1200	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	5300	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	3700	260	1000	1000	ug/Kg

# **Sample Criteria Exceedances Report**

Criteria: CT: GAM, GBM, I/C, RC

State: CT

State:	CI						RL	Analysis
SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	Criteria	Units
CE85696	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC RES (mg/kg) / APS Organics	1200	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3800	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	5300	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	4400	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	3600	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR GA,GAA (mg/kg) / APS Organics	1200	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	3700	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	3900	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	3800	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	5300	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	4400	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	3100	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	5800	260	4000	4000	ug/Kg
CE85696	\$8100SMR	Fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	5700	260	5600	5600	ug/Kg
CE85696	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR GB (mg/kg) / APS Organics	1200	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	3900	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	3700	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	3600	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	5300	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	3100	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	3800	260	1000	1000	ug/Kg
CE85696	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	4400	260	1000	1000	ug/Kg
CE85700	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC I/C (mg/kg) / APS Organics	2100	270	1000	1000	ug/Kg
CE85700	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	11000	2700	1000	1000	ug/Kg
CE85700	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC RES (mg/kg) / APS Organics	2100	270	1000	1000	ug/Kg
CE85700	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	6000	270	1000	1000	ug/Kg
CE85700	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	11000	2700	1000	1000	ug/Kg
CE85700	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	7000	270	1000	1000	ug/Kg
CE85700	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	7400	2700	1000	1000	ug/Kg
CE85700	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR GA,GAA (mg/kg) / APS Organics	2100	270	1000	1000	ug/Kg
CE85700	\$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	6100	270	1000	1000	ug/Kg
CE85700	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	6000	270	1000	1000	ug/Kg
CE85700	\$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	7400	270	1000	1000	ug/Kg
CE85700	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	4300	270	1000	1000	ug/Kg
CE85700	\$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	11000	2700	1000	1000	ug/Kg
CE85700	\$8100SMR	Phenanthrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	6200	270	4000	4000	ug/Kg
CE85700	\$8100SMR	Fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	13000	2700	5600	5600	ug/Kg
CE85700	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	7400	2700	1000	1000	ug/Kg
CE85700	\$8100SMR	Pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	13000	2700	4000	4000	ug/Kg
CE85700	\$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	7000	270	1000	1000	ug/Kg
CE85700	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	6000	270	1000	1000	ug/Kg

# **Sample Criteria Exceedances Report**

Criteria: CT: GAM, GBM, I/C, RC

State: CT

State:	СТ						RL	Analysis
SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	Criteria	Units
CE85700	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	7400	270	1000	1000	ug/Kg
CE85700	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	6100	270	1000	1000	ug/Kg
CE85700	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR GB (mg/kg) / APS Organics	2100	270	1000	1000	ug/Kg
CE85700	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	11000	2700	1000	1000	ug/Kg
CE85700	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	7400	2700	1000	1000	ug/Kg
CE85700	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	7000	270	1000	1000	ug/Kg
CE85700	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	4300	270	1000	1000	ug/Kg
CE85701	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC I/C (mg/kg) / APS Organics	5400	250	1000	1000	ug/Kg
CE85701	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC I/C (mg/kg) / APS Organics	20000	2500	7800	7800	ug/Kg
CE85701	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	24000	2500	7800	7800	ug/Kg
CE85701	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	31000	2500	1000	1000	ug/Kg
CE85701	\$8100SMR	Benz(a)anthracene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	26000	2500	7800	7800	ug/Kg
CE85701	\$8100SMR	Benzo(ghi)perylene	CT / RSR DEC RES (mg/kg) / APS Organics	18000	2500	8400	8400	ug/Kg
CE85701	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC RES (mg/kg) / APS Organics	5400	250	1000	1000	ug/Kg
CE85701	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	20000	2500	1000	1000	ug/Kg
CE85701	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	26000	2500	1000	1000	ug/Kg
CE85701	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	31000	2500	1000	1000	ug/Kg
CE85701	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	24000	2500	1000	1000	ug/Kg
CE85701	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	20000	2500	1000	1000	ug/Kg
CE85701	\$8100SMR	2-Methylnaphthalene	CT / RSR GA,GAA (mg/kg) / APS Organics	1300	250	560	560	ug/Kg
CE85701	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR GA,GAA (mg/kg) / APS Organics	5400	250	1000	1000	ug/Kg
CE85701	\$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	18000	2500	1000	1000	ug/Kg
CE85701	\$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	25000	2500	1000	1000	ug/Kg
CE85701	\$8100SMR	Phenanthrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	31000	2500	4000	4000	ug/Kg
CE85701	\$8100SMR	Pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	39000	2500	4000	4000	ug/Kg
CE85701	\$8100SMR	Fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	44000	2500	5600	5600	ug/Kg
CE85701	\$8100SMR	Acenaphthylene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	11000	2500	8400	8400	ug/Kg
CE85701	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	4700	250	1000	1000	ug/Kg
CE85701	\$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	26000	2500	1000	1000	ug/Kg
CE85701	\$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	31000	2500	1000	1000	ug/Kg
CE85701	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	24000	2500	1000	1000	ug/Kg
CE85701	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	20000	2500	1000	1000	ug/Kg
CE85701	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	18000	2500	1000	1000	ug/Kg
CE85701	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	25000	2500	1000	1000	ug/Kg
CE85701	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR GB (mg/kg) / APS Organics	5400	250	1000	1000	ug/Kg
CE85701	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	24000	2500	1000	1000	ug/Kg
CE85701	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	26000	2500	1000	1000	ug/Kg
CE85701	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	4700	250	1000	1000	ug/Kg
CE85701	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	31000	2500	1000	1000	ug/Kg
CE85703	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	2300	290	1000	1000	ug/Kg

# **Sample Criteria Exceedances Report**

Criteria: CT: GAM, GBM, I/C, RC

State: CT

GCE85692 - TIGHE-DAS						
	Result	RL	Criteria	RL Criteria	Analysis Units	
R DEC RES (mg/kg) / APS Organics	1700	290	1000	1000	ug/Kg	
R DEC RES (mg/kg) / Semivolatiles	1500	290	1000	1000	ug/Kg	
R DEC RES (mg/kg) / Semivolatiles	2300	290	1000	1000	ug/Kg	
D O A O A A (/	4700	200	4000	4000	/1/	

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	Criteria	Units
CE85703	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1700	290	1000	1000	ug/Kg
CE85703	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1500	290	1000	1000	ug/Kg
CE85703	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2300	290	1000	1000	ug/Kg
CE85703	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	1700	290	1000	1000	ug/Kg
CE85703	\$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	1400	290	1000	1000	ug/Kg
CE85703	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1500	290	1000	1000	ug/Kg
CE85703	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1200	290	1000	1000	ug/Kg
CE85703	\$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	2300	290	1000	1000	ug/Kg
CE85703	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1700	290	1000	1000	ug/Kg
CE85703	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	1400	290	1000	1000	ug/Kg
CE85703	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1500	290	1000	1000	ug/Kg
CE85703	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	2300	290	1000	1000	ug/Kg
CE85703	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1200	290	1000	1000	ug/Kg
CE85707	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	1400	290	1000	1000	ug/Kg
CE85707	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1400	290	1000	1000	ug/Kg
CE85707	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1100	290	1000	1000	ug/Kg
CE85707	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1100	290	1000	1000	ug/Kg
CE85707	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1400	290	1000	1000	ug/Kg
CE85707	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	1400	290	1000	1000	ug/Kg
CE85707	\$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	1200	290	1000	1000	ug/Kg
CE85707	\$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	1200	290	1000	1000	ug/Kg
CE85707	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1100	290	1000	1000	ug/Kg
CE85707	\$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1400	290	1000	1000	ug/Kg
CE85707	\$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1100	290	1000	1000	ug/Kg
CE85707	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	1200	290	1000	1000	ug/Kg
CE85707	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1200	290	1000	1000	ug/Kg
CE85707	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1400	290	1000	1000	ug/Kg
CE85707	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1100	290	1000	1000	ug/Kg
CE85707	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	1100	290	1000	1000	ug/Kg
CE85707	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	1400	290	1000	1000	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



# REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. Client: Tighe & Bond

Project Location: FAIRFIELD-MILL HILL ELEMENTAR Project Number:

Laboratory Sample ID(s): CE85692-CE85694, Sampling Date(s): 12/11/2019

CE85696, CE85698, CE85700, CE85701, CE85703, CE85705, CE85707

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8270

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes □ No
1A	Were the method specified preservation and holding time requirements met?	☐ Yes 🗹 No
1B	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	✓ Yes □ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	✓ Yes □ No □ NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Section: SVOA Narration.	☐ Yes 🗹 No
5	a) Were reporting limits specified or referenced on the chain-of-custody?	✓ Yes □ No
	b) Were these reporting limits met?	✓ Yes □ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes 🗹 No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	✓ Yes □ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalt knowledge and belief and based upon my personal in information contained in this analytical report, such	nquiry of those responsible for providing the
Authorized Signature:	Position: Assistant Lab Director
Printed Name: Greg Lawrence	Date: Monday, December 30, 2019
Name of Laboratory Phoenix Environmental Labs, Inc.	

This certification form is to be used for RCP methods only.



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **RCP Certification Report**

December 30, 2019 SDG I.D.: GCE85692

#### **SDG Comments**

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

SPLP PAH - CE85692, CE85701

The SPLP PAH extraction was requested one day past the holding time. A low bias is possible.

#### SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 509991 (Samples: CE85692, CE85693, CE85694, CE85696, CE85698, CE85700, CE85701, CE85703, CE85705, CE85707): -----

The LCS/LCSD recovery is acceptable. One analyte and one surrogate in the site specific matrix spike recovery is below the lower range but within the method criteria. A slight low bias is possible. (Naphthalene, % Nitrobenzene-d5)

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Benz(a)anthracene, Benzo(a)pyrene, Chrysene, Fluoranthene, Phenanthrene, Pyrene)
Instrument:

#### CHEM05 12/13/19-1

Wes Bryon, Chemist 12/13/19

CE85692, CE85700, CE85701

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM05/5\_SPLIT\_1115):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM05/1213\_03-5\_SPLIT\_1115):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

#### <u>CHEM06 12/12/19-1</u> Wes Bryon, Chemist 12/12/19

CE85692, CE85693, CE85696, CE85698, CE85700, CE85701, CE85703, CE85705, CE85707

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM06/6\_BN\_1203):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.



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# **RCP Certification Report**

December 30, 2019 SDG I.D.: GCE85692

#### **SVOA Narration**

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/1212\_03-6\_BN\_1203):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

#### CHEM07 12/13/19-1

Wes Bryon, Chemist 12/13/19

CE85694

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM07/7\_SPLIT\_1203):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/1213\_03-7\_SPLIT\_1203):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

#### CHEM28 12/16/19-1

Matt Richard, Chemist 12/16/19

CE85694

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM28/28\_BN\_1206):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM28/1216\_04-28\_BN\_1206):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.



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# **RCP Certification Report**

December 30, 2019 SDG I.D.: GCE85692

#### **SVOA Narration**

#### QC (Batch Specific):

#### Batch 511948 (CE85692)

CE85692, CE85701

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

#### QC (Site Specific):

#### Batch 509991 (CE85705)

CE85692, CE85693, CE85694, CE85696, CE85698, CE85700, CE85701, CE85703, CE85705, CE85707

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 30 - 130 with the following exceptions: % Nitrobenzene-d5(29%), Naphthalene(29%)

All MSD recoveries were within 30 - 130 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: Benz(a)anthracene(36.9%), Benzo(a)pyrene(32.6%),

Chrysene(36.9%), Fluoranthene(47.0%), Phenanthrene(42.5%), Pyrene(46.8%)

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

### **SVOASIM Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:

#### CHEM25 12/27/19-1

Wes Bryon, Chemist 12/27/19

CE85692, CE85701

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM25/25\_BNSIM18\_1118):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM25/1227\_03-25\_BNSIM18\_1118):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

95% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.



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# RCP Certification Report

December 30, 2019 SDG I.D.: GCE85692

#### **SVOASIM Narration**

The following compounds did not meet recommended response factors: None. The following compounds did not meet minimum response factors: None.

#### QC (Batch Specific):

#### Batch 511948 (CE85692)

CE85692, CE85701

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

#### QC (Site Specific):

#### Batch 509991 (CE85705)

CE85692, CE85693, CE85694, CE85696, CE85698, CE85700, CE85701, CE85703, CE85705, CE85707

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 30 - 130 with the following exceptions: % Nitrobenzene-d5(29%), Naphthalene(29%)

All MSD recoveries were within 30 - 130 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: Benz(a)anthracene(36.9%), Benzo(a)pyrene(32.6%),

Chrysene(36.9%), Fluoranthene(47.0%), Phenanthrene(42.5%), Pyrene(46.8%)

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

#### **Temperature Narration**

The samples were received at 1.6C with cooling initiated. (Note acceptance criteria for relevant matrices is above freezing up to 6°C)

er: Yes No	े Pg ( of 2	ntact Options:	150439-027	10	completed with	Bottle Quantities.	1000 100		Supple Supple Strate Supple Strate Supple Su												Data Format	Excel	GIS/Key	EQuIS Envirodata	■ Uther Data Package	☐ Tier II Checklist ☐ Full Data Package*	Phoenix Std Report Other	* SURCHARGE APPLIES
Cooler: Cooler: IPK	Ω ldmeT	Data Delivery/Contact Options: Fax: Phone: Frail: on file	15			Both			107 kg												MA Tonos		Gw-2	☐ Gw-3	S-1	% % %3	☐ MWRA eSMART ☐ Other	cted: CT
		77 06040 E23	nentary School	B Gaulzetti & 1 libb					\$ 105 105 105 105 105 105 105 105 105 105	-	•	<del>-</del>	_	-	τ-	1	-	-	-	-	U.	ure RCP Cert	SW Protection	GA Mobility	GB Mobility	Residential DEC	Other	State where samples were collected:
	<b>CHAIN OF CUSTODY RECORD</b>	587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040 Email: info@phoenixlabs.com Fax (860) 645-0823 Client Services (860) 645-8726	-airfiek	I Olsen B Sirowich B Gautzetti & I Libby	Westfield Office	DAS Rates																(Residential)	7.50 GW	S\(\mathcal{L}_\) Other			5 DAY TURN AROUND	
	CHAIN OF CUS	east Middle Turnpike, P.O. Box Email: info@phoenixlabs.com Client Services (8	Project:	Report to:	Invoice to:	QUOTE#	Analysis	Kednest	SING	<u> </u>			Hold	×	Hold	×	Hold	×	×	Hold	Ē	11-16 1:	14/2/19	12/12/15/15/15	Turnaround:	│		Other SURCHARGE APPLIES
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		i, Inc.					ı - Identifica	Soil SD=Soil	Sample	soil	soil	soil	soil	soil	soil	soil	soil	soil	soil	soil	;;;	Folk		So 1	ons:			
		PHOENIX ST.	Tighe & Bond	1000 Bridgeport Ave	Shelton, CT		Clight Rample Anformation - Identification	Matrix Code:  Water Code:  Water SW=Surface Water Ww=Waste Water  RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Soild W=Wipe OIL=Oil  B=Bulk L=Liquid	Customer Sample Identification	MH-1 (0.5'-1')	MH-1 (1'-1.5')	MH-1S (0-0.5')	MH-1S (1'-1.5')	MH-1N (0-0.5')	MH-1N (1'-1.5')	MH-1E (0-0.5')	MH-1E (1'-1.5')	MH-2 (0.5'-1')	MH-2 (1'-1.5')	MH-2 (2'-2.5')	Accepted by	175	4		Comments, Special Requirements or Regulations			
		PHO.	Customer: T	•	•	ı <b>!</b>	Sampler's	Matrix Code: Water EW=Bmw Water SE=Bulk L=Liquid	PHOENIX USE ONLY SAMPLE #	25068	851A 3	85694	85695	32000	85697	8598	8,20dg	85 <b>G</b> -00		8540 P	Relinguished by:				Comments, Special F	DAS Rates		

Cooler: Yes No	Data Delivery/Contact Options:	.O: 150439-027	This section MUST be	completed with Bottle Quantities.	1600/203											Da	Excell FDF	☐ GIS/Key ☐ EQuIS Envirodata	Data Package Tier II Checklist	<u>                                     </u>	* SURCHARGE APPLIES
Coolant: Temp	Data Delive Fax: Phone: Email: on file	Pro	J. Libby				A COLLO				1	-				MA		ection GW-2		S-3  MWRA eSMART  Other	e collected: CT
RECORD	J, Manchester, CT 06040 Fax (860) 645-0823 <b>645-8726</b>	Project: Fairfield - Mill Hill Elementary School		Invoice to: Westfield Office QUOTE # DAS Rates												RRI Discrete		SW Protection		VC DEC	State where samples were collected:
CHAIN OF CUSTODY RECORD	East Middle Turnpike, P.O. Box 370, Manchester, CT 06040 Email: info@phoenixlabs.com Fax (860) 645-0823 Client Services (860) 645-8726				Analysis	Request	1 83.40	×	Hold	×	PloH	×	Plold			Time:	4000-1 61-120	27.01	nd:	2 Days* 3 Days* 5 DAY TURN Standard AROUND	APPLIES
동	587 East Mide Email: ir				2-11-19	e Water	Time			11:10	11:15	11:20	11:25			0			<i>,</i> FI		
					ation	er WW=Wast	Date	$\vdash \vdash$	12/11/2019	12/11/2019	12/11/2019	12/11/2019	12/11/2019				N N	X	P		
	s, Inc.				on - Identific	Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Wa RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL	Sample				soil	soil	soil			) 	Tro Frida		ons:		
	PHOENIX SERVITOR TO THE PROPERTY OF THE PROPER	Tighe & Bond	1000 Bridgeport Ave.	Shelton, C.I	Client Sample-Thformation - Identification		Customer Sample Identification				MH-2N (1'-1.5')	MH-2W (0-0.5')	MH-2W (1'-1.5')			Accepted by:			Comments, Special Requirements or Reguiations:		
	PHC Environme	Customer:	Address:		Sampler's	Matrix Code: DW=Drinking Wate RW=Raw Water Si B=Bulk L=Liquid	PHOENIX USE ONLY SAMPLE #	86708	85704	21	口	70168	85 1UD			Religioushed by:	PAR		Comments, Special	DAS Rates	

#### Makrina Nolan

Subject:

GCE85692

From: Ian Adomeit [mailto:IAdomeit@TigheBond.com]

Sent: Thursday, December 26, 2019 1:34 PM

To: Makrina Nolan Cc: Brian Sirowich

Subject: RE: PAH SPLP Request

Yes, I confirm for that. I believe only the first data group is out of hold for SPLP PAHs. The second data group should be good.

#### Ian Adomeit | Staff Engineer

Tighe & Bond | 213 Court Street, Suite 1100 | Middletown, CT 06457 | T. 860.852.5236 www.tighebond.com | Follow us on: Twitter Facebook LinkedIn

Tighe&Bond

From: Makrina Nolan < Makrina@phoenixlabs.com>

Sent: Thursday, December 26, 2019 1:32 PM
To: lan Adomeit <a href="mailto:slan-kdomeit@TigheBond.com">slan-kdomeit@TigheBond.com</a>
Cc: Brian Sirowich <a href="mailto:slan-kdomeit@TigheBond.com">slan-kdomeit@TigheBond.com</a>

Subject: RE: PAH SPLP Request

#### No problem.

Can you please confirm that you would like these added even though they are out of hold for SPLP PAHs?

#### Thank you, Makrina

From: Ian Adomeit [mailto:IAdomeit@TigheBond.com]

Sent: Thursday, December 26, 2019 12:03 PM

To: Makrina Nolan Cc: Brian Sirowich

Subject: PAH SPLP Request

### Hi Makrina,

Can you please run the following samples on a 24-hour turnaround for SPLP. Please note these samples are from two different data groups.

#### First data group:

SDG: GCE85692

Sample IDs: CE85692, CE85701

#### Second data group:

SDG: GCE87288

Sample IDs: CE87324, CE87334, CE87339, CE87344, CE87350, CE87353

Please report to bsirowich@tighebond.com and me.

Thanks,

lan

Ian Adomeit | Staff Engineer

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Tighe & Bond

From: Makrina Nolan < Makrina@phoenixlabs.com > Sent: Thursday, December 26, 2019 10:55 AM To: lan Adomeit < IAdomeit@TigheBond.com > Subject: RE: Time Sensitive: GCE87288 Results

### No problem!

From: Ian Adomeit [mailto:IAdomeit@TigheBond.com]

Sent: Thursday, December 26, 2019 10:50 AM

To: Makrina Nolan

Subject: RE: Time Sensitive: GCE87288 Results

THANK YOU!!!!! I will be getting back to you shortly with which of these samples to run for PAH SPLP on 24 hour turnaround.

Thanks,

lan

Ian Adomeit | Staff Engineer

Tighe & Bond | 213 Court Street, Suite 1100 | Middletown, CT 06457 | T. 860.852.5236

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Tighe&Bond

From: Makrina Nolan < Makrina@phoenixlabs.com > Sent: Thursday, December 26, 2019 10:45 AM To: lan Adomeit < IAdomeit@TigheBond.com > Subject: RE: Time Sensitive: GCE87288 Results

Hi lan,

It looks like this report has just been released, I have attached it for your convenience.

Thank you, Makrina

From: Ian Adomeit [mailto:IAdomeit@TigheBond.com]

Sent: Thursday, December 26, 2019 9:47 AM

To: Makrina Nolan

Subject: RE: Time Sensitive: GCE87288 Results

Thank you, much appreciated.

My phone number is 860 852 5236 if you need to reach me.

Ian Adomeit | Staff Engineer

Tighe & Bond | 213 Court Street, Suite 1100 | Middletown, CT 06457 | T. 860.852.5236

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Tighe&Bond

From: Makrina Nolan < Makrina@phoenixlabs.com>
Sent: Thursday, December 26, 2019 9:46 AM
To: lan Adomeit < IAdomeit@TigheBond.com>
Subject: RE: Time Sensitive: GCE87288 Results

[ Caution - External Sender ]

Hi lan.

I will need to ask my boss about these results and get back to you. I will get back to you as soon as I hear back from her.

Thank you, Makrina

From: Ian Adomeit [mailto:IAdomeit@TigheBond.com]

Sent: Thursday, December 26, 2019 8:53 AM

To: Makrina Nolan

Subject: Time Sensitive: GCE87288 Results

Hi Makrina,

I am looking for the results for SDG GCE87288 but they are unavailable on the Phoenix Environmental portal. Can you send them over to me ASAP please? We are looking to run PAH SPLP on some of the samples in this data group and need to have them run today since they were collected 14 days ago.

Thanks,

lan

lan Adomeit | Staff Engineer

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Tighe&Bond



Monday, July 19, 2021

Attn: Brian Sirowich Tighe & Bond 213 Court St, Suite 1100 Middletown, CT 06457

Project ID: MILL HILL ELEM SCHOOL

**SDG ID:** GCI66823

Sample ID#s: CI66823 - CI66845

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis/Shiller

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #M-CT007
ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301

PA Lab Registration #68-03530

RI Lab Registration #63

UT Lab Registration #CT00007

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **SDG Comments**

July 19, 2021

SDG I.D.: GCI66823

Version 2: Per client request additional analyses were added on.



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# Sample Id Cross Reference

July 19, 2021

SDG I.D.: GCI66823

Project ID: MILL HILL ELEM SCHOOL

Client Id	Lab Id	Matrix
MHS 401 (1.5)	CI66823	SOIL
MHB 402 (3)	CI66824	SOIL
MHS 403 (1)	CI66825	SOIL
MHS 404 (1.5)	CI66826	SOIL
MHB 405 (3)	CI66827	SOIL
MHS 406 (1.5)	CI66828	SOIL
MHS 407 (1.5)	CI66829	SOIL
MHB 408 (3)	CI66830	SOIL
MHS 409 (1.5)	CI66831	SOIL
MHS 410 (1.5)	CI66832	SOIL
MHB 411 (3)	CI66833	SOIL
MHB 411D (3)	CI66834	SOIL
MHS 412 (1.5)	CI66835	SOIL
MHS 413 (1.5)	CI66836	SOIL
MHB 414 (2`)	CI66837	SOIL
MHS 415 (0.5)	CI66838	SOIL
MHS 416 (1)	CI66839	SOIL
MHB 417 (1)	CI66840	SOIL
MHS 418 (0.5)	CI66841	SOIL
MHB 419 (1`)	CI66842	SOIL
MHS 420 (0.5)	CI66843	SOIL
MHB 421 (1)	CI66844	SOIL
MHS 422 (0.5)	CI66845	SOIL



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**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2110:00Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>Laboratory Data</u> SDG ID: GCI66823

Phoenix ID: Cl66823

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 401 (1.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference	
Arsenic	5.40	0.64	mg/Kg	1	07/09/21	TH	SW6010D	
Lead	3.57	0.32	mg/Kg	1	07/09/21	TH	SW6010D	
SPLP Arsenic	< 0.004	0.004	mg/L	1	07/14/21	CPP	SW6010D	
SPLP Metals Digestion	Completed				07/14/21	AB/AB	SW3010A	
Percent Solid	97		%		07/01/21	AR	SW846-%Solid	
Extraction of ETPH	Completed				07/01/21	1	SW3546	
Soil Extraction for Pesticide	Completed				07/02/21	L/K	SW3546	
Soil Extraction for SVOA PAH	Completed				07/01/21	R/Z	SW3546	
Extraction for PCB	Completed				07/01/21	S/KL/AF	R SW3540C	
SPLP Extraction for Metals	Completed				07/13/21	AB	SW1312	
Total Metals Digest	Completed				07/02/21	M/AG/B	F SW3050B	
TPH by GC (Extractable	e Products	<u>s)</u>						
Ext. Petroleum H.C. (C9-C36)	ND	51	mg/Kg	1	07/02/21	JRB	CTETPH 8015D	
Identification	ND		mg/Kg	1	07/02/21	JRB	CTETPH 8015D	
QA/QC Surrogates								
% COD (surr)	47		%	1	07/02/21	JRB	50 - 150 %	3
% Terphenyl (surr)	111		%	1	07/02/21	JRB	50 - 150 %	
PCB (Soxhlet SW35400	<u>C)</u>							
PCB-1016	ND	170	ug/Kg	5	07/02/21	SC	SW8082A	
PCB-1221	ND	170	ug/Kg	5	07/02/21	SC	SW8082A	
PCB-1232	ND	170	ug/Kg	5	07/02/21	SC	SW8082A	
PCB-1242	ND	170	ug/Kg	5	07/02/21	SC	SW8082A	
PCB-1248	ND	170	ug/Kg	5	07/02/21	SC	SW8082A	
PCB-1254	ND	170	ug/Kg	5	07/02/21	SC	SW8082A	
PCB-1260	ND	170	ug/Kg	5	07/02/21	SC	SW8082A	

Client ID: MHS 401 (1.5)

Danamatan	Desult	RL/	I India	Dilation	Data/Tima	D	Defenses
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
PCB-1262	ND	170	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1268	ND	170	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates				_			
% DCBP	104		%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	94		%	5	07/02/21	SC	30 - 150 %
% TCMX	81		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	85		%	5	07/02/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.4	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDE	ND	1.4	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDT	ND	1.4	ug/Kg	2	07/06/21	CG	SW8081B
a-BHC	ND	1.4	ug/Kg	2	07/06/21	CG	SW8081B
Alachlor	ND	6.8	ug/Kg	2	07/06/21	CG	SW8081B
Aldrin	ND	1.4	ug/Kg	2	07/06/21	CG	SW8081B
b-BHC	ND	1.4	ug/Kg	2	07/06/21	CG	SW8081B
Chlordane	ND	34	ug/Kg	2	07/06/21	CG	SW8081B
d-BHC	ND	1.4	ug/Kg	2	07/06/21	CG	SW8081B
Dieldrin	ND	3.4	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan I	ND	6.8	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan II	ND	6.8	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan sulfate	ND	6.8	ug/Kg	2	07/06/21	CG	SW8081B
Endrin	ND	6.8	ug/Kg	2	07/06/21	CG	SW8081B
Endrin aldehyde	ND	6.8	ug/Kg	2	07/06/21	CG	SW8081B
Endrin ketone	ND	6.8	ug/Kg	2	07/06/21	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor	ND	6.8	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor epoxide	ND	6.8	ug/Kg	2	07/06/21	CG	SW8081B
Methoxychlor	ND	34	ug/Kg	2	07/06/21	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/06/21	CG	SW8081B
QA/QC Surrogates							
% DCBP	83		%	2	07/06/21	CG	30 - 150 %
% DCBP (Confirmation)	83		%	2	07/06/21	CG	30 - 150 %
% TCMX	76		%	2	07/06/21	CG	30 - 150 %
% TCMX (Confirmation)	75		%	2	07/06/21	CG	30 - 150 %
Polynuclear Aromatic I	<b>J</b> C						
2-Methylnaphthalene	ND	230	ug/Kg	1	07/02/21	WB	SW8270D
	ND	230	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthylana	ND	230	ug/Kg	1	07/02/21	WB	SW8270D SW8270D
Acenaphthylene	ND	230	ug/Kg	1	07/02/21	WB	SW8270D SW8270D
Anthracene	ND	230	ug/Kg	1	07/02/21	WB	SW8270D SW8270D
Benza(a)anthracene	ND	230	ug/Kg ug/Kg	1	07/02/21	WB	SW8270D SW8270D
Benzo(a)pyrene	ND	230	ug/Kg ug/Kg	1	07/02/21	WB	SW8270D SW8270D
Benzo(b)fluoranthene	ND	230	ug/Kg ug/Kg		07/02/21	WB	SW8270D SW8270D
Benzo(ghi)perylene				1			
Benzo(k)fluoranthene	ND	230	ug/Kg	1	07/02/21	WB	SW8270D
Chrysene	ND	230	ug/Kg	1	07/02/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	230	ug/Kg	1	07/02/21	WB	SW8270D
Fluoranthene	ND	230	ug/Kg	1	07/02/21	WB	SW8270D
Fluorene	ND	230	ug/Kg	1	07/02/21	WB	SW8270D

Client ID: MHS 401 (1.5)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Indeno(1,2,3-cd)pyrene	ND	230	ug/Kg	1	07/02/21	WB	SW8270D
Naphthalene	ND	230	ug/Kg	1	07/02/21	WB	SW8270D
Phenanthrene	ND	230	ug/Kg	1	07/02/21	WB	SW8270D
Pyrene	ND	230	ug/Kg	1	07/02/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	81		%	1	07/02/21	WB	30 - 130 %
% Nitrobenzene-d5	77		%	1	07/02/21	WB	30 - 130 %
% Terphenyl-d14	80		%	1	07/02/21	WB	30 - 130 %

<sup>3 =</sup> This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

#### **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

July 19. 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## **Analysis Report**

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

**Sample Information Custody Information Date** <u>Time</u> Collected by: 07/01/21 10:05 Matrix: SOIL Received by: Location Code: **TIGHE-DAS** CP 07/01/21 17:35

Rush Request: Standard Analyzed by: see "By" below

150439 MILL HILL P.O.#:

SDG ID: GCI66823

\_aboratory Data Phoenix ID: Cl66824

MILL HILL ELEM SCHOOL Project ID:

Client ID: MHB 402 (3)

	D 1	RL/	11.2	D'' ''	D ( /T:	_	D (
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	5.09	0.80	mg/Kg	1	07/09/21	TH	SW6010D
Lead	14.0	0.40	mg/Kg	1	07/09/21	TH	SW6010D
Percent Solid	83		%		07/01/21	AR	SW846-%Solid
Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
Soil Extraction for Pesticide	Completed				07/02/21	L/K	SW3546
Soil Extraction for SVOA PAH	Completed				07/01/21	R/Z	SW3546
Extraction for PCB	Completed				07/01/21	S/KL/AF	R SW3540C
Total Metals Digest	Completed				07/02/21	M/AG/B	F SW3050B
TPH by GC (Extractable	e Products	3)					
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	07/03/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/03/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	109		%	1	07/03/21	JRB	50 - 150 %
% Terphenyl (surr)	97		%	1	07/03/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1221	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1232	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1242	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1248	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1254	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1260	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1262	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1268	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates							

Client ID: MHB 402 (3)

Doromotor	Dogult	RL/ PQL	Units	Dilution	Data/Time	D.	Deference
Parameter	Result	PQL		Dilution	Date/Time	Ву	Reference
% DCBP	104		%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	90		%	5	07/02/21	SC	30 - 150 %
% TCMX	82		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	83		%	5	07/02/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
a-BHC	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
Alachlor	ND	7.9	ug/Kg	2	07/06/21	CG	SW8081B
Aldrin	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
b-BHC	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
Chlordane	ND	40	ug/Kg	2	07/06/21	CG	SW8081B
d-BHC	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan I	ND	7.9	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan II	ND	7.9	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan sulfate	ND	7.9	ug/Kg	2	07/06/21	CG	SW8081B
Endrin	ND	7.9	ug/Kg	2	07/06/21	CG	SW8081B
Endrin aldehyde	ND	7.9	ug/Kg	2	07/06/21	CG	SW8081B
Endrin ketone	ND	7.9	ug/Kg	2	07/06/21	CG	SW8081B
g-BHC	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor	ND	7.9	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor epoxide	ND	7.9	ug/Kg	2	07/06/21	CG	SW8081B
Methoxychlor	ND	40	ug/Kg	2	07/06/21	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	07/06/21	CG	SW8081B
QA/QC Surrogates							
% DCBP	75		%	2	07/06/21	CG	30 - 150 %
% DCBP (Confirmation)	81		%	2	07/06/21	CG	30 - 150 %
% TCMX	72		%	2	07/06/21	CG	30 - 150 %
% TCMX (Confirmation)	76		%	2	07/06/21	CG	30 - 150 %
Polynuclear Aromatic	c HC						
2-Methylnaphthalene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Chrysene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Fluoranthene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Phenanthrene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
			. 3. 3		•		

Client ID: MHB 402 (3)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	92		%	1	07/02/21	WB	30 - 130 %
% Nitrobenzene-d5	89		%	1	07/02/21	WB	30 - 130 %
% Terphenyl-d14	82		%	1	07/02/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

#### **Comments:**

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## **Analysis Report**

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2110:10Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL Laboratory Data

SDG ID: GCI66823

Phoenix ID: CI66825

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 403 (1)

_		RL/				_	
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	3.66	0.77	mg/Kg	1	07/09/21	TH	SW6010D
Lead	10.2	0.39	mg/Kg	1	07/09/21	TH	SW6010D
Percent Solid	90		%		07/01/21	AR	SW846-%Solid
Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
Soil Extraction for Pesticide	Completed				07/02/21	L/K	SW3546
Soil Extraction for SVOA PAH	Completed				07/01/21	R/Z	SW3546
Extraction for PCB	Completed				07/01/21	S/KL/AF	R SW3540C
Total Metals Digest	Completed				07/02/21	M/AG/BI	F SW3050B
TPH by GC (Extractable	Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	280	mg/Kg	5	07/06/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	07/06/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	89		%	5	07/06/21	JRB	50 - 150 %
% Terphenyl (surr)	90		%	5	07/06/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u> </u>						
PCB-1016	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1221	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1232	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1242	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1248	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1254	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1260	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1262	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1268	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates							

Client ID: MHS 403 (1)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% DCBP	109		%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	92		%	5	07/02/21	SC	30 - 150 %
% TCMX	86		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	87		%	5	07/02/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
a-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Alachlor	ND	7.3	ug/Kg	2	07/07/21	CG	SW8081B
Aldrin	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
b-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Chlordane	ND	37	ug/Kg	2	07/07/21	CG	SW8081B
d-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	07/07/21	CG	SW8081B
Endrin	ND	7.3	ug/Kg	2	07/07/21	CG	SW8081B
	ND	7.3 7.3	ug/Kg		07/07/21	CG	SW8081B
Endrin aldehyde				2			
Endrin ketone	ND	7.3	ug/Kg	2	07/07/21	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	07/07/21	CG	SW8081B
Methoxychlor	ND	37	ug/Kg	2	07/07/21	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/07/21	CG	SW8081B
QA/QC Surrogates	07		0/		07/07/04	00	00 4500/
% DCBP	67		%	2	07/07/21	CG	30 - 150 %
% DCBP (Confirmation)	68		%	2	07/07/21	CG	30 - 150 %
% TCMX	69		%	2	07/07/21	CG	30 - 150 %
% TCMX (Confirmation)	67		%	2	07/07/21	CG	30 - 150 %
Polynuclear Aromatic	HC						
2-Methylnaphthalene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Anthracene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Chrysene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Fluoranthene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Fluorene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Naphthalene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Phenanthrene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
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Client ID: MHS 403 (1)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	80		%	1	07/02/21	WB	30 - 130 %
% Nitrobenzene-d5	82		%	1	07/02/21	WB	30 - 130 %
% Terphenyl-d14	70		%	1	07/02/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2110:15Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>Laboratory Data</u> SDG ID: GCI66823

Phoenix ID: CI66826

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 404 (1.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	4.53	0.74	mg/Kg	1	07/09/21	TH	SW6010D
Lead	10.3	0.37	mg/Kg	1	07/09/21	TH	SW6010D
Percent Solid	91		%		07/01/21	AR	SW846-%Solid
Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
Soil Extraction for Pesticide	Completed				07/02/21	L/K	SW3546
Soil Extraction for SVOA PAH	Completed				07/01/21	R/Z	SW3546
Extraction for PCB	Completed				07/01/21	S/KL/AF	R SW3540C
Total Metals Digest	Completed				07/02/21	M/AG/BI	F SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	07/03/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/03/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	106		%	1	07/03/21	JRB	50 - 150 %
% Terphenyl (surr)	95		%	1	07/03/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1221	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1232	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1242	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1248	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1254	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1260	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1262	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1268	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates							

Client ID: MHS 404 (1.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
		I QL					
% DCBP	82		%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	93		%	5	07/02/21	SC	30 - 150 %
% TCMX	74		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	87		%	5	07/02/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.4	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDE	ND	1.4	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDT	ND	1.4	ug/Kg	2	07/07/21	CG	SW8081B
a-BHC	ND	1.4	ug/Kg	2	07/07/21	CG	SW8081B
Alachlor	ND	7.1	ug/Kg	2	07/07/21	CG	SW8081B
Aldrin	ND	1.4	ug/Kg	2	07/07/21	CG	SW8081B
b-BHC	ND	1.4	ug/Kg	2	07/07/21	CG	SW8081B
Chlordane	ND	36	ug/Kg	2	07/07/21	CG	SW8081B
d-BHC	ND	1.4	ug/Kg	2	07/07/21	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	07/07/21	CG	SW8081B
Endrin	ND	7.1	ug/Kg	2	07/07/21	CG	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	07/07/21	CG	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	07/07/21	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor epoxide	ND	7.1	ug/Kg	2	07/07/21	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	07/07/21	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/07/21	CG	SW8081B
QA/QC Surrogates			99				
% DCBP	75		%	2	07/07/21	CG	30 - 150 %
% DCBP (Confirmation)	78		%	2	07/07/21	CG	30 - 150 %
% TCMX	74		%	2	07/07/21	CG	30 - 150 %
% TCMX (Confirmation)	74		%	2	07/07/21	CG	30 - 150 %
Dahamalaan Anamatia I	10						
Polynuclear Aromatic I							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Fluoranthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D

Client ID: MHS 404 (1.5)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	87		%	1	07/02/21	WB	30 - 130 %
% Nitrobenzene-d5	80		%	1	07/02/21	WB	30 - 130 %
% Terphenyl-d14	75		%	1	07/02/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2110:20Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

D. /

P.O.#: 150439 MILL HILL

<u>aboratory Data</u> SDG ID: GCI66823

Phoenix ID: Cl66827

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHB 405 (3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	3.27	0.70	mg/Kg	1	07/09/21	TH	SW6010D
Lead	6.12	0.35	mg/Kg	1	07/09/21	TH	SW6010D
Percent Solid	91		%		07/01/21	AR	SW846-%Solid
Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
Soil Extraction for Pesticide	Completed				07/02/21	L/K	SW3546
Soil Extraction for SVOA PAH	Completed				07/01/21	R/Z	SW3546
Extraction for PCB	Completed				07/01/21	S/KL/AF	SW3540C
Total Metals Digest	Completed				07/02/21	M/AG/BI	F SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	07/03/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/03/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	109		%	1	07/03/21	JRB	50 - 150 %
% Terphenyl (surr)	95		%	1	07/03/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1221	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1232	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1242	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1248	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1254	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1260	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1262	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1268	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates							

Client ID: MHB 405 (3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
% DCBP	112	. ~_	%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	95		%	5	07/02/21	SC	30 - 150 %
% TCMX	85		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	87		%	5	07/02/21	SC	30 - 150 %
76 TOWX (Committation)	O1		70	Ü	01/02/21	00	00 100 /0
<u>Pesticides</u>							
4,4' -DDD	ND	1.4	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDE	ND	1.4	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDT	ND	1.4	ug/Kg	2	07/07/21	CG	SW8081B
a-BHC	ND	1.4	ug/Kg	2	07/07/21	CG	SW8081B
Alachlor	ND	7.1	ug/Kg	2	07/07/21	CG	SW8081B
Aldrin	ND	1.4	ug/Kg	2	07/07/21	CG	SW8081B
b-BHC	ND	1.4	ug/Kg	2	07/07/21	CG	SW8081B
Chlordane	ND	36	ug/Kg	2	07/07/21	CG	SW8081B
d-BHC	ND	1.4	ug/Kg	2	07/07/21	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	07/07/21	CG	SW8081B
Endrin	ND	7.1	ug/Kg	2	07/07/21	CG	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	07/07/21	CG	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	07/07/21	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor epoxide	ND	7.1	ug/Kg	2	07/07/21	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	07/07/21	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/07/21	CG	SW8081B
QA/QC Surrogates							
% DCBP	70		%	2	07/07/21	CG	30 - 150 %
% DCBP (Confirmation)	70		%	2	07/07/21	CG	30 - 150 %
% TCMX	74		%	2	07/07/21	CG	30 - 150 %
% TCMX (Confirmation)	71		%	2	07/07/21	CG	30 - 150 %
Polynuclear Aromatic Ho	<u>C</u>						
2-Methylnaphthalene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Anthracene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Chrysene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Fluoranthene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Fluorene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Naphthalene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D
Phenanthrene	ND	250	ug/Kg	1	07/02/21	WB	SW8270D

Client ID: MHB 405 (3)

	RL/					
Result	PQL	Units	Dilution	Date/Time	Ву	Reference
ND	250	ug/Kg	1	07/02/21	WB	SW8270D
90		%	1	07/02/21	WB	30 - 130 %
84		%	1	07/02/21	WB	30 - 130 %
82		%	1	07/02/21	WB	30 - 130 %
	ND 90 84	Result PQL  ND 250  90 84	Result         PQL         Units           ND         250         ug/Kg           90         %           84         %	Result         PQL         Units         Dilution           ND         250         ug/Kg         1           90         %         1           84         %         1	Result         PQL         Units         Dilution         Date/Time           ND         250         ug/Kg         1         07/02/21           90         %         1         07/02/21           84         %         1         07/02/21	Result         PQL         Units         Dilution         Date/Time         By           ND         250         ug/Kg         1         07/02/21         WB           90         %         1         07/02/21         WB           84         %         1         07/02/21         WB

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2110:25Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>Laboratory Data</u> SDG ID: GCI66823

Phoenix ID: Cl66828

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 406 (1.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	4.19	0.77	mg/Kg	1	07/10/21	CPP	SW6010D
Lead	17.6	0.39	mg/Kg	1	07/10/21	CPP	SW6010D
Percent Solid	84		%		07/01/21	AR	SW846-%Solid
Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
Soil Extraction for Pesticide	Completed				07/01/21	L/K	SW3546
Soil Extraction for SVOA PAH	Completed				07/01/21	R/Z	SW3546
Extraction for PCB	Completed				07/01/21	S/KL/AR	SW3540C
Total Metals Digest	Completed				07/02/21	M/AG	SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	07/03/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/03/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	130		%	1	07/03/21	JRB	50 - 150 %
% Terphenyl (surr)	133		%	1	07/03/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1221	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1232	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1242	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1248	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1254	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1260	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1262	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1268	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates							

Client ID: MHS 406 (1.5)

	•	RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% DCBP	95		%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	81		%	5	07/02/21	SC	30 - 150 %
% TCMX	74		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	75		%	5	07/02/21	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
a-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Alachlor	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Aldrin	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
b-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Chlordane	ND	39	ug/Kg	2	07/07/21	CG	SW8081B
d-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Endrin	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
g-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Methoxychlor	ND	39	ug/Kg	2	07/07/21	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	07/07/21	CG	SW8081B
QA/QC Surrogates							
% DCBP	70		%	2	07/07/21	CG	30 - 150 %
% DCBP (Confirmation)	69		%	2	07/07/21	CG	30 - 150 %
% TCMX	67		%	2	07/07/21	CG	30 - 150 %
% TCMX (Confirmation)	64		%	2	07/07/21	CG	30 - 150 %
Polynuclear Aromatic	HC						
		070	a/l/a	4	07/02/24	WB	CWOOZOD
2-Methylnaphthalene	ND	270	ug/Kg	1	07/02/21 07/02/21		SW8270D
Acenaphthene	ND	270	ug/Kg	1		WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	07/02/21	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	07/02/21	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	07/02/21	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	07/02/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	07/02/21	WB	SW8270D
Fluoranthene	ND	270	ug/Kg	1	07/02/21	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	07/02/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	07/02/21	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	07/02/21	WB	SW8270D
Phenanthrene	ND	270	ug/Kg	1	07/02/21	WB	SW8270D

Client ID: MHS 406 (1.5)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	ND	270	ug/Kg	1	07/02/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	88		%	1	07/02/21	WB	30 - 130 %
% Nitrobenzene-d5	93		%	1	07/02/21	WB	30 - 130 %
% Terphenyl-d14	77		%	1	07/02/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2110:30Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>aboratory Data</u> SDG ID: GCI66823

Phoenix ID: Cl66829

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 407 (1.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	5.75	0.78	mg/Kg	1	07/10/21	CPP	SW6010D
Lead	11.8	0.39	mg/Kg	1	07/10/21	CPP	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	07/14/21	CPP	SW6010D
SPLP Metals Digestion	Completed				07/14/21	AB/AB	SW3010A
Percent Solid	83		%		07/01/21	AR	SW846-%Solid
Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
Soil Extraction for Pesticide	Completed				07/02/21	L/K	SW3546
Soil Extraction for SVOA PAH	Completed				07/01/21	R/Z	SW3546
Extraction for PCB	Completed				07/01/21	S/KL/AR	SW3540C
SPLP Extraction for Metals	Completed				07/13/21	AB	SW1312
Total Metals Digest	Completed				07/02/21	M/AG	SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	07/03/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/03/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	104		%	1	07/03/21	JRB	50 - 150 %
% Terphenyl (surr)	99		%	1	07/03/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1221	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1232	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1242	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1248	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1254	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1260	ND	200	ug/Kg	5	07/02/21	SC	SW8082A

Client ID: MHS 407 (1.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
PCB-1262	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1268	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates	ND	200	ug/Ng	3	01/02/21	00	OW0002A
% DCBP	97		%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	91		%	5	07/02/21	SC	30 - 150 %
% TCMX	88		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	87		%	5	07/02/21	SC	30 - 150 %
76 TOWN (Committation)	0.		,,	Ü	01/02/21	00	00 100 /0
<u>Pesticides</u>							
4,4' -DDD	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
a-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Alachlor	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Aldrin	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
b-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Chlordane	ND	39	ug/Kg	2	07/07/21	CG	SW8081B
d-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Endrin	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
g-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Methoxychlor	ND	39	ug/Kg	2	07/07/21	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	07/07/21	CG	SW8081B
QA/QC Surrogates							
% DCBP	69		%	2	07/07/21	CG	30 - 150 %
% DCBP (Confirmation)	71		%	2	07/07/21	CG	30 - 150 %
% TCMX	71		%	2	07/07/21	CG	30 - 150 %
% TCMX (Confirmation)	70		%	2	07/07/21	CG	30 - 150 %
Delynueleer Aremetic	υс						
Polynuclear Aromatic	ND	280	ua/Ka	1	07/02/21	WB	SW8270D
2-Methylnaphthalene	ND	280	ug/Kg ug/Kg	1 1	07/02/21	WB	SW8270D SW8270D
Acenaphthene	ND	280			07/02/21	WB	SW8270D SW8270D
Acenaphthylene			ug/Kg	1			
Anthracene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Chrysene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Fluoranthene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D

Client ID: MHS 407 (1.5)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Phenanthrene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Pyrene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	82		%	1	07/02/21	WB	30 - 130 %
% Nitrobenzene-d5	77		%	1	07/02/21	WB	30 - 130 %
% Terphenyl-d14	80		%	1	07/02/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2110:35Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>aboratory Data</u> SDG ID: GCI66823

Phoenix ID: Cl66830

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHB 408 (3)

		RL/						
Parameter	Result	PQL		Units	Dilution	Date/Time	Ву	Reference
Arsenic	2.73	0.71	r	ng/Kg	1	07/10/21	CPP	SW6010D
Lead	7.65	0.36	r	ng/Kg	1	07/10/21	CPP	SW6010D
Percent Solid	88			%		07/01/21	AR	SW846-%Solid
Extraction of ETPH	Completed					07/02/21	I/Z	SW3546
Soil Extraction for Pesticide	Completed					07/02/21	L/K	SW3546
Soil Extraction for SVOA PAH	Completed					07/01/21	R/Z	SW3546
Extraction for PCB	Completed					07/01/21	S/KL/AR	SW3540C
Total Metals Digest	Completed					07/02/21	M/AG	SW3050B
TPH by GC (Extractable	Products	<u>s)</u>						
Ext. Petroleum H.C. (C9-C36)	ND	56	r	ng/Kg	1	07/03/21	JRB	CTETPH 8015D
Identification	ND		r	ng/Kg	1	07/03/21	JRB	CTETPH 8015D
QA/QC Surrogates								
% COD (surr)	71			%	1	07/03/21	JRB	50 - 150 %
% Terphenyl (surr)	79			%	1	07/03/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>							
PCB-1016	ND	180	1	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1221	ND	180	1	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1232	ND	180		ug/Kg	5	07/02/21	SC	SW8082A
PCB-1242	ND	180		ug/Kg	5	07/02/21	SC	SW8082A
PCB-1248	ND	180		ug/Kg	5	07/02/21	SC	SW8082A
PCB-1254	ND	180		ug/Kg	5	07/02/21	SC	SW8082A
PCB-1260	ND	180		ug/Kg	5	07/02/21	SC	SW8082A
PCB-1262	ND	180		ug/Kg	5	07/02/21	SC	SW8082A
PCB-1268	ND	180	1	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates								

Client ID: MHB 408 (3)

· ·		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% DCBP	75		%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	86		%	5	07/02/21	SC	30 - 150 %
% TCMX	64		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	72		%	5	07/02/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
a-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Alachlor	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Aldrin	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
b-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Chlordane	ND	37	ug/Kg	2	07/07/21	CG	SW8081B
d-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Endrin	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
<u>-</u>	ND	7.5 7.5	ug/Kg	2	07/07/21	CG	SW8081B
Endrin ketone	ND	7.5 1.5	ug/Kg	2	07/07/21	CG	SW8081B
g-BHC	ND	7.5	ug/Kg ug/Kg		07/07/21	CG	SW8081B
Heptachlor				2			
Heptachlor epoxide	ND	7.5 37	ug/Kg	2	07/07/21 07/07/21	CG	SW8081B SW8081B
Methoxychlor	ND		ug/Kg	2		CG	
Toxaphene	ND	150	ug/Kg	2	07/07/21	CG	SW8081B
QA/QC Surrogates	7.4		0/	0	07/07/04	00	00 450 0/
% DCBP	74 75		%	2	07/07/21	CG	30 - 150 %
% DCBP (Confirmation)	75		%	2	07/07/21	CG	30 - 150 %
% TCMX	69		%	2	07/07/21	CG	30 - 150 %
% TCMX (Confirmation)	66		%	2	07/07/21	CG	30 - 150 %
Polynuclear Aromatic	HC						
2-Methylnaphthalene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Fluoranthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
	-		- 3 3			_	-

Client ID: MHB 408 (3)

Develope	D !!	RL/	11.26	Du de	Data /Time	_	Deference
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	86		%	1	07/02/21	WB	30 - 130 %
% Nitrobenzene-d5	91		%	1	07/02/21	WB	30 - 130 %
% Terphenyl-d14	80		%	1	07/02/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

#### **Comments:**

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2110:40Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL Laboratory Data

SDG ID: GCI66823

Phoenix ID: CI66831

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 409 (1.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	4.38	0.73	mg/Kg	1	07/10/21	CPP	SW6010D
Lead	17.6	0.37	mg/Kg	1	07/10/21	CPP	SW6010D
Percent Solid	81		%		07/01/21	AR	SW846-%Solid
Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
Soil Extraction for Pesticide	Completed				07/02/21	L/K	SW3546
Soil Extraction for SVOA PAH	Completed				07/01/21	R/Z	SW3546
Extraction for PCB	Completed				07/01/21	S/KL/AR	SW3540C
Total Metals Digest	Completed				07/02/21	M/AG	SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	62	mg/Kg	1	07/03/21	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	07/03/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	114		%	1	07/03/21	JRB	50 - 150 %
% Terphenyl (surr)	128		%	1	07/03/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1221	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1232	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1242	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1248	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1254	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1260	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1262	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1268	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates							

Client ID: MHS 409 (1.5)

Danamatan	Danult	RL/	l laite	Dilection	Data/Tima	Dec	Deference
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% DCBP	66		%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	74		%	5	07/02/21	SC	30 - 150 %
% TCMX	55		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	62		%	5	07/02/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
a-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Alachlor	ND	8.2	ug/Kg	2	07/07/21	CG	SW8081B
Aldrin	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
b-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Chlordane	ND	41	ug/Kg	2	07/07/21	CG	SW8081B
d-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan I	ND	8.2	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan II	ND	8.2	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan sulfate	ND	8.2	ug/Kg	2	07/07/21	CG	SW8081B
Endrin	ND	8.2	ug/Kg	2	07/07/21	CG	SW8081B
Endrin aldehyde	ND	8.2	ug/Kg	2	07/07/21	CG	SW8081B
Endrin ketone	ND	8.2	ug/Kg	2	07/07/21	CG	SW8081B
g-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor	ND	8.2	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor epoxide	ND	8.2	ug/Kg	2	07/07/21	CG	SW8081B
Methoxychlor	ND	41	ug/Kg	2	07/07/21	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	07/07/21	CG	SW8081B
QA/QC Surrogates	ND	100	ug/itg	_	01701721	00	CWOOOTE
% DCBP	62		%	2	07/07/21	CG	30 - 150 %
% DCBP (Confirmation)	61		%	2	07/07/21	CG	30 - 150 %
% TCMX	54		%	2	07/07/21	CG	30 - 150 %
% TCMX (Confirmation)	56		%	2	07/07/21	CG	30 - 150 %
70 TOWN (Committation)	00		70	_	07707721	00	00 100 /0
Polynuclear Aromatic H							
2-Methylnaphthalene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Chrysene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Fluoranthene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Phenanthrene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D

Client ID: MHS 409 (1.5)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	83		%	1	07/02/21	WB	30 - 130 %
% Nitrobenzene-d5	83		%	1	07/02/21	WB	30 - 130 %
% Terphenyl-d14	77		%	1	07/02/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

#### **Comments:**

#### TPH Comment:

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Phyllis Shiller, Laboratory Director

July 19, 2021

<sup>\*\*</sup>Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2110:45Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL Laboratory Data

SDG ID: GCI66823

Phoenix ID: Cl66832

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 410 (1.5)

Parameter	Result	RL/ PQL	U	nits	Dilution	Date/Time	Ву	Reference
Arsenic	5.07	0.79	m	g/Kg	1	07/10/21	CPP	SW6010D
Lead	17.5	0.40	m	g/Kg	1	07/10/21	CPP	SW6010D
Percent Solid	84			%		07/01/21	AR	SW846-%Solid
Extraction of ETPH	Completed					07/02/21	I/Z	SW3546
Soil Extraction for Pesticide	Completed					07/02/21	L/K	SW3546
Soil Extraction for SVOA PAH	Completed					07/01/21	R/Z	SW3546
Extraction for PCB	Completed					07/01/21	S/KL/AR	SW3540C
Total Metals Digest	Completed					07/02/21	M/AG	SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>						
Ext. Petroleum H.C. (C9-C36)	ND	59	m	g/Kg	1	07/03/21	JRB	CTETPH 8015D
Identification	ND		m	g/Kg	1	07/03/21	JRB	CTETPH 8015D
QA/QC Surrogates								
% COD (surr)	72			%	1	07/03/21	JRB	50 - 150 %
% Terphenyl (surr)	67			%	1	07/03/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>							
PCB-1016	ND	200	uç	g/Kg	5	07/02/21	SC	SW8082A
PCB-1221	ND	200	นดู	g/Kg	5	07/02/21	SC	SW8082A
PCB-1232	ND	200	นดู	g/Kg	5	07/02/21	SC	SW8082A
PCB-1242	ND	200	นดู	g/Kg	5	07/02/21	SC	SW8082A
PCB-1248	ND	200	นดู	g/Kg	5	07/02/21	SC	SW8082A
PCB-1254	ND	200	นดู	g/Kg	5	07/02/21	SC	SW8082A
PCB-1260	ND	200	ug	g/Kg	5	07/02/21	SC	SW8082A
PCB-1262	ND	200	ug	g/Kg	5	07/02/21	SC	SW8082A
PCB-1268	ND	200	ug	g/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates								

Client ID: MHS 410 (1.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
		I QL					
% DCBP	66		%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	76 50		%	5	07/02/21	SC	30 - 150 %
% TCMX	58		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	65		%	5	07/02/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
a-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Alachlor	ND	7.9	ug/Kg	2	07/07/21	CG	SW8081B
Aldrin	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
b-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Chlordane	ND	40	ug/Kg	2	07/07/21	CG	SW8081B
d-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan I	ND	7.9	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan II	ND	7.9	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan sulfate	ND	7.9	ug/Kg	2	07/07/21	CG	SW8081B
Endrin	ND	7.9	ug/Kg	2	07/07/21	CG	SW8081B
Endrin aldehyde	ND	7.9	ug/Kg	2	07/07/21	CG	SW8081B
Endrin ketone	ND	7.9	ug/Kg	2	07/07/21	CG	SW8081B
g-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor	ND	7.9	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor epoxide	ND	7.9	ug/Kg	2	07/07/21	CG	SW8081B
Methoxychlor	ND	40	ug/Kg	2	07/07/21	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	07/07/21	CG	SW8081B
QA/QC Surrogates			-99				
% DCBP	72		%	2	07/07/21	CG	30 - 150 %
% DCBP (Confirmation)	72		%	2	07/07/21	CG	30 - 150 %
% TCMX	65		%	2	07/07/21	CG	30 - 150 %
% TCMX (Confirmation)	63		%	2	07/07/21	CG	30 - 150 %
Daluminalaan Anamatia I	10						
Polynuclear Aromatic H							
2-Methylnaphthalene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Chrysene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Fluoranthene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
Phenanthrene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D

Client ID: MHS 410 (1.5)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	ND	280	ug/Kg	1	07/02/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	84		%	1	07/02/21	WB	30 - 130 %
% Nitrobenzene-d5	82		%	1	07/02/21	WB	30 - 130 %
% Terphenyl-d14	77		%	1	07/02/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

#### **Comments:**

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2110:50Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>aboratory Data</u> SDG ID: GCI66823

Phoenix ID: Cl66833

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHB 411 (3)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	2.18	0.76	mg/Kg	1	07/10/21	CPP	SW6010D
Lead	9.20	0.38	mg/Kg	1	07/10/21	CPP	SW6010D
Percent Solid	89		%		07/01/21	AR	SW846-%Solid
Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
Soil Extraction for Pesticide	Completed				07/02/21	L/K	SW3546
Soil Extraction for SVOA PAH	Completed				07/01/21	R/Z	SW3546
Extraction for PCB	Completed				07/01/21	S/KL/AR	SW3540C
Total Metals Digest	Completed				07/02/21	M/AG	SW3050B
TPH by GC (Extractable	Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	07/03/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/03/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	118		%	1	07/03/21	JRB	50 - 150 %
% Terphenyl (surr)	132		%	1	07/03/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1221	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1232	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1242	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1248	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1254	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1260	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1262	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1268	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates							

Client ID: MHB 411 (3)

Damanatan	Danult	RL/	Haita	Dilation	Data/Tima	D	Defenses
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% DCBP	83		%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	93		%	5	07/02/21	SC	30 - 150 %
% TCMX	73		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	84		%	5	07/02/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
a-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Alachlor	ND	7.3	ug/Kg	2	07/07/21	CG	SW8081B
Aldrin	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
b-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Chlordane	ND	37	ug/Kg	2	07/07/21	CG	SW8081B
d-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	07/07/21	CG	SW8081B
Endrin	ND	7.3	ug/Kg	2	07/07/21	CG	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	07/07/21	CG	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	07/07/21	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	07/07/21	CG	SW8081B
Methoxychlor	ND	37	ug/Kg	2	07/07/21	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/07/21	CG	SW8081B
QA/QC Surrogates			-3-3				
% DCBP	82		%	2	07/07/21	CG	30 - 150 %
% DCBP (Confirmation)	75		%	2	07/07/21	CG	30 - 150 %
% TCMX	77		%	2	07/07/21	CG	30 - 150 %
% TCMX (Confirmation)	77		%	2	07/07/21	CG	30 - 150 %
Polynuclear Aromatic H	10						
		200	/1/	4	07/00/04	WD	CW0070D
2-Methylnaphthalene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benz(a)anthracene	350	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(a)pyrene	590	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(b)fluoranthene	610	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(ghi)perylene	360	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(k)fluoranthene	410	260	ug/Kg	1	07/02/21	WB	SW8270D
Chrysene	380	260	ug/Kg	1	07/02/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Fluoranthene	590	260	ug/Kg	1	07/02/21	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	330	260	ug/Kg	1	07/02/21	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Phenanthrene	300	260	ug/Kg	1	07/02/21	WB	SW8270D

Client ID: MHB 411 (3)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	640	260	ug/Kg	1	07/02/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	92		%	1	07/02/21	WB	30 - 130 %
% Nitrobenzene-d5	95		%	1	07/02/21	WB	30 - 130 %
% Terphenyl-d14	82		%	1	07/02/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

#### **Comments:**

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2110:51Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL Laboratory Data

SDG ID: GCI66823

Phoenix ID: Cl66834

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHB 411D (3)

Parameter	Result	RL/ PQL	Unit	s Dilutior	n Date/Time	в Ву	Reference
Arsenic	1.71	0.72	mg/K	g 1	07/10/21	CPP	SW6010D
Lead	9.33	0.36	mg/K	g 1	07/10/21	CPP	SW6010D
Percent Solid	87		%		07/01/21	AR	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/06/21	L/K	SW3546
Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
Soil Extraction for SVOA PAH	Completed				07/01/21	R/Z	SW3546
Extraction for PCB	Completed				07/01/21	S/KL/AF	SW3540C
Total Metals Digest	Completed				07/02/21	M/AG	SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/K	g 1	07/03/21	JRB	CTETPH 8015D
Identification	ND		mg/K	g 1	07/03/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	124		%	1	07/03/21	JRB	50 - 150 %
% Terphenyl (surr)	107		%	1	07/03/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	190	ug/K	g 5	07/02/21	SC	SW8082A
PCB-1221	ND	190	ug/K	g 5	07/02/21	SC	SW8082A
PCB-1232	ND	190	ug/K	g 5	07/02/21	SC	SW8082A
PCB-1242	ND	190	ug/K	g 5	07/02/21	SC	SW8082A
PCB-1248	ND	190	ug/K	g 5	07/02/21	SC	SW8082A
PCB-1254	ND	190	ug/K	g 5	07/02/21	SC	SW8082A
PCB-1260	ND	190	ug/K	g 5	07/02/21	SC	SW8082A
PCB-1262	ND	190	ug/K	g 5	07/02/21	SC	SW8082A
PCB-1268	ND	190	ug/K	g 5	07/02/21	SC	SW8082A
QA/QC Surrogates							

Client ID: MHB 411D (3)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% DCBP	79		%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	89		%	5	07/02/21	SC	30 - 150 %
% TCMX	72		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	83		%	5	07/02/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
a-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Alachlor	ND	7.6	ug/Kg	2	07/07/21	CG	SW8081B
Aldrin	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
b-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Chlordane	ND	38	ug/Kg	2	07/07/21	CG	SW8081B
d-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	07/07/21	CG	SW8081B
Endrin	ND	7.6	ug/Kg	2	07/07/21	CG	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	07/07/21	CG	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	07/07/21	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	07/07/21	CG	SW8081B
Methoxychlor	ND	38	ug/Kg	2	07/07/21	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/07/21	CG	SW8081B
QA/QC Surrogates		.00	<i>ag</i> ,g	_	0.,0.,		0.1.000.2
% DCBP	60		%	2	07/07/21	CG	30 - 150 %
% DCBP (Confirmation)	63		%	2	07/07/21	CG	30 - 150 %
% TCMX	57		%	2	07/07/21	CG	30 - 150 %
% TCMX (Confirmation)	55		%	2	07/07/21	CG	30 - 150 %
Delymusias Aremetic II	<b>C</b>						
Polynuclear Aromatic H							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Fluoranthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D

Client ID: MHB 411D (3)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	84		%	1	07/02/21	WB	30 - 130 %
% Nitrobenzene-d5	78		%	1	07/02/21	WB	30 - 130 %
% Terphenyl-d14	80		%	1	07/02/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2111:00Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>aboratory Data</u>
SDG ID: GCl66823
Phoenix ID: Cl66835

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 412 (1.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	5.46	0.69	mg/Kg	1	07/10/21	CPP	SW6010D
Lead	17.6	0.09	mg/Kg	1	07/10/21	CPP	SW6010D SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	07/14/21	CPP	SW6010D SW6010D
SPLP Lead	< 0.004	0.004	mg/L	1	07/14/21	CPP	SW6010D SW6010D
	Completed	0.010	IIIg/L		07/14/21	_	SW3010A
SPLP Metals Digestion	87		%			AB/AB AR	SW846-%Solid
Percent Solid	87		%		07/01/21	AK	5VV846-%50IIG
Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
Soil Extraction for Pesticide	Completed				07/02/21	L/K	SW3546
Soil Extraction for SVOA PAH	Completed				07/01/21	R/Z	SW3546
Extraction for PCB	Completed				07/01/21	S/KL/AR	SW3540C
SPLP Extraction for Metals	Completed				07/13/21	AB	SW1312
Total Metals Digest	Completed				07/02/21	M/AG	SW3050B
TPH by GC (Extractable	e Products	;)					
Ext. Petroleum H.C. (C9-C36)	ND	<b>57</b>	mg/Kg	1	07/03/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/03/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	87		%	1	07/03/21	JRB	50 - 150 %
% Terphenyl (surr)	76		%	1	07/03/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	2)						
PCB-1016	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1221	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1232	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1242	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1248	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1254	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
				-			

Client ID: MHS 412 (1.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
PCB-1260	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1262	ND	190	ug/Kg ug/Kg	5	07/02/21	SC	SW8082A
PCB-1268	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates	ND	150	ug/itg	3	01/02/21	00	0110002A
% DCBP	68		%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	78		%	5	07/02/21	SC	30 - 150 %
% TCMX	55		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	64		%	5	07/02/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	0.75	ug/Kg	1	07/07/21	CG	SW8081B
4,4' -DDE	ND	0.75	ug/Kg	1	07/07/21	CG	SW8081B
4,4' -DDT	ND	0.75	ug/Kg	1	07/07/21	CG	SW8081B
a-BHC	ND	0.75	ug/Kg ug/Kg	1	07/07/21	CG	SW8081B
	ND	3.8	ug/Kg ug/Kg	1	07/07/21	CG	SW8081B
Alachlor	ND	1.9	ug/Kg ug/Kg	1	07/07/21	CG	SW8081B
Aldrin							
b-BHC	ND ND	0.75 19	ug/Kg ug/Kg	1	07/07/21 07/07/21	CG CG	SW8081B SW8081B
Chlordane				1			
d-BHC	ND	0.75	ug/Kg	1	07/07/21 07/07/21	CG	SW8081B
Dieldrin	ND	1.9	ug/Kg	1		CG	SW8081B
Endosulfan I	ND	3.8	ug/Kg	1	07/07/21	CG	SW8081B
Endosulfan II	ND	3.8	ug/Kg	1	07/07/21	CG	SW8081B
Endosulfan sulfate	ND	3.8	ug/Kg	1	07/07/21	CG	SW8081B
Endrin	ND	3.8	ug/Kg	1	07/07/21	CG	SW8081B
Endrin aldehyde	ND	3.8	ug/Kg	1	07/07/21	CG	SW8081B
Endrin ketone	ND	3.8	ug/Kg	1	07/07/21	CG	SW8081B
g-BHC	ND	0.75	ug/Kg	1	07/07/21	CG	SW8081B
Heptachlor	ND	3.8	ug/Kg	1	07/07/21	CG	SW8081B
Heptachlor epoxide	ND	3.8	ug/Kg	1	07/07/21	CG	SW8081B
Methoxychlor	ND	19	ug/Kg	1	07/07/21	CG	SW8081B
Toxaphene	ND	75	ug/Kg	1	07/07/21	CG	SW8081B
QA/QC Surrogates							
% DCBP	36		%	1	07/07/21	CG	30 - 150 %
% DCBP (Confirmation)	33		%	1	07/07/21	CG	30 - 150 %
% TCMX	34		%	1	07/07/21	CG	30 - 150 %
% TCMX (Confirmation)	34		%	1	07/07/21	CG	30 - 150 %
Polynuclear Aromatic H							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Fluoranthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D

Client ID: MHS 412 (1.5)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Fluorene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Pyrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	84		%	1	07/02/21	WB	30 - 130 %
% Nitrobenzene-d5	83		%	1	07/02/21	WB	30 - 130 %
% Terphenyl-d14	75		%	1	07/02/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### Comments:

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2111:30Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>aboratory Data</u> SDG ID: GCI66823

Phoenix ID: CI66836

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 413 (1.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	3.27	0.74	mg/Kg	1	07/10/21	CPP	SW6010D
Lead	8.45	0.37	mg/Kg	1	07/10/21	CPP	SW6010D
Percent Solid	87		%		07/01/21	AR	SW846-%Solid
Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
Soil Extraction for Pesticide	Completed				07/02/21	L/K	SW3546
Soil Extraction for SVOA PAH	Completed				07/01/21	R/Z	SW3546
Extraction for PCB	Completed				07/01/21	S/KL/AR	SW3540C
Total Metals Digest	Completed				07/02/21	M/AG	SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	07/06/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/06/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	76		%	1	07/06/21	JRB	50 - 150 %
% Terphenyl (surr)	74		%	1	07/06/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1221	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1232	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1242	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1248	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1254	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1260	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1262	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1268	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates							

Client ID: MHS 413 (1.5)

Doromotor	Dogult	RL/ PQL	Lloito	Dilution	Doto/Time	D.	Deference
Parameter	Result	PQL	Units	Dilution -	Date/Time	Ву	Reference
% DCBP	73		%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	83		%	5	07/02/21	SC	30 - 150 %
% TCMX	53		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	58		%	5	07/02/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
a-BHC	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
Alachlor	ND	7.4	ug/Kg	2	07/06/21	CG	SW8081B
Aldrin	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
b-BHC	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
Chlordane	ND	37	ug/Kg	2	07/06/21	CG	SW8081B
d-BHC	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	07/06/21	CG	SW8081B
Endrin	ND	7.4	ug/Kg	2	07/06/21	CG	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	07/06/21	CG	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	07/06/21	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	07/06/21	CG	SW8081B
Methoxychlor	ND	37	ug/Kg	2	07/06/21	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/06/21	CG	SW8081B
QA/QC Surrogates							
% DCBP	73		%	2	07/06/21	CG	30 - 150 %
% DCBP (Confirmation)	70		%	2	07/06/21	CG	30 - 150 %
% TCMX	68		%	2	07/06/21	CG	30 - 150 %
% TCMX (Confirmation)	68		%	2	07/06/21	CG	30 - 150 %
Bolymuologe Aromatia H	<b>C</b>						
Polynuclear Aromatic H		000	0.6		07/00/04	\4/D	014/00705
2-Methylnaphthalene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Fluoranthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D

Client ID: MHS 413 (1.5)

	RL/					
Result	PQL	Units	Dilution	Date/Time	Ву	Reference
ND	260	ug/Kg	1	07/02/21	WB	SW8270D
86		%	1	07/02/21	WB	30 - 130 %
82		%	1	07/02/21	WB	30 - 130 %
85		%	1	07/02/21	WB	30 - 130 %
	ND 86 82	Result         PQL           ND         260           86         82	Result         PQL         Units           ND         260         ug/Kg           86         %           82         %	Result         PQL         Units         Dilution           ND         260         ug/Kg         1           86         %         1           82         %         1	Result         PQL         Units         Dilution         Date/Time           ND         260         ug/Kg         1         07/02/21           86         %         1         07/02/21           82         %         1         07/02/21	Result         PQL         Units         Dilution         Date/Time         By           ND         260         ug/Kg         1         07/02/21         WB           86         %         1         07/02/21         WB           82         %         1         07/02/21         WB

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2111:35Location Code:TIGHE-DASReceived by:CP07/01/2117:35

\_aboratory Data

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

SDG ID: GCI66823

Phoenix ID: CI66837

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHB 414 (2`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	2.86	0.74	mg/Kg	1	07/10/21	CPP	SW6010D
Lead	10.2	0.37	mg/Kg	1	07/10/21	CPP	SW6010D
Percent Solid	90		%		07/01/21	AR	SW846-%Solid
Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
Soil Extraction for Pesticide	Completed				07/02/21	L/K	SW3546
Soil Extraction for SVOA PAH	Completed				07/01/21	R/Z	SW3546
Extraction for PCB	Completed				07/01/21	S/KL/AR	SW3540C
SPLP Extraction for Organics	Completed				07/13/21	AB	SW1312
SPLP Semivolatiles (SIM) Ext.	Completed				07/14/21	P/CG	SW3510C/SW3520C
Total Metals Digest	Completed				07/02/21	M/AG	SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	280	mg/Kg	5	07/06/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	07/06/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	90		%	5	07/06/21	JRB	50 - 150 %
% Terphenyl (surr)	93		%	5	07/06/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	 ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1221	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1232	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1242	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1248	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1254	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1260	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1262	ND	180	ug/Kg	5	07/02/21	SC	SW8082A

Client ID: MHB 414 (2`)

Olient ID. Willia 414 (2)	<b>5</b>	RL/	11. %	<b>5</b>	D / /T'	_	5.4
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
PCB-1268	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates							
% DCBP	78		%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	81		%	5	07/02/21	SC	30 - 150 %
% TCMX	76		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	84		%	5	07/02/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.4	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDE	ND	1.7	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDT	ND	3.0	ug/Kg	2	07/06/21	CG	SW8081B
a-BHC	ND	1.4	ug/Kg	2	07/06/21	CG	SW8081B
Alachlor	ND	7.2	ug/Kg	2	07/06/21	CG	SW8081B
Aldrin	ND	1.4	ug/Kg	2	07/06/21	CG	SW8081B
b-BHC	ND	1.4	ug/Kg	2	07/06/21	CG	SW8081B
Chlordane	ND	36	ug/Kg	2	07/06/21	CG	SW8081B
d-BHC	ND	1.4	ug/Kg	2	07/06/21	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	07/06/21	CG	SW8081B
Endrin	ND	7.2	ug/Kg	2	07/06/21	CG	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	07/06/21	CG	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	07/06/21	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	07/06/21	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	07/06/21	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/06/21	CG	SW8081B
QA/QC Surrogates							
% DCBP	64		%	2	07/06/21	CG	30 - 150 %
% DCBP (Confirmation)	64		%	2	07/06/21	CG	30 - 150 %
% TCMX	64		%	2	07/06/21	CG	30 - 150 %
% TCMX (Confirmation)	62		%	2	07/06/21	CG	30 - 150 %
Polynuclear Aromatic HC	•						
2-Methylnaphthalene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthylene	1000	260	ug/Kg	1	07/02/21	WB	SW8270D
Anthracene	700	260	ug/Kg	1	07/02/21	WB	SW8270D
Benz(a)anthracene	1700	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(a)pyrene	1900	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(b)fluoranthene	1700	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(ghi)perylene	1300	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(k)fluoranthene	1500	260	ug/Kg	1	07/02/21	WB	SW8270D
Chrysene	1800	260	ug/Kg	1	07/02/21	WB	SW8270D
Dibenz(a,h)anthracene	280	260	ug/Kg	1	07/02/21	WB	SW8270D
Fluoranthene	3300	260	ug/Kg	1	07/02/21	WB	SW8270D
Fluorene	410	260	ug/Kg	1	07/02/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	1100	260	ug/Kg	1	07/02/21	WB	SW8270D
	1100	200		•	01/02/E1	.,,,	J.10210D

Client ID: MHB 414 (2`)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Naphthalene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Phenanthrene	2300	260	ug/Kg	1	07/02/21	WB	SW8270D
Pyrene	3200	260	ug/Kg	1	07/02/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	83		%	1	07/02/21	WB	30 - 130 %
% Nitrobenzene-d5	81		%	1	07/02/21	WB	30 - 130 %
% Terphenyl-d14	77		%	1	07/02/21	WB	30 - 130 %
SPLP Semivolatiles by	y SIM						
2-Methylnaphthalene	ND	0.50	ug/L	1	07/15/21	WB	SW8270D (SIM)
Acenaphthene	ND	0.50	ug/L	1	07/15/21	WB	SW8270D (SIM)
Acenaphthylene	1.4	0.30	ug/L	1	07/15/21	WB	SW8270D (SIM)
Anthracene	0.68	0.50	ug/L	1	07/15/21	WB	SW8270D (SIM)
Benz(a)anthracene	0.06	0.05	ug/L	1	07/15/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	07/15/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	07/15/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	ug/L	1	07/15/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.30	ug/L	1	07/15/21	WB	SW8270D (SIM)
Chrysene	ND	0.50	ug/L	1	07/15/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	07/15/21	WB	SW8270D (SIM)
Fluoranthene	0.82	0.50	ug/L	1	07/15/21	WB	SW8270D (SIM)
Fluorene	1.7	0.50	ug/L	1	07/15/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	07/15/21	WB	SW8270D (SIM)
Naphthalene	0.74	0.50	ug/L	1	07/15/21	WB	SW8270D (SIM)
Phenanthrene	3.7	0.06	ug/L	1	07/15/21	WB	SW8270D (SIM)
Pyrene	0.60	0.50	ug/L	1	07/15/21	WB	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	61		%	1	07/15/21	WB	30 - 130 %
% Nitrobenzene-d5	61		%	1	07/15/21	WB	30 - 130 %
% Terphenyl-d14	65		%	1	07/15/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

## **Comments:**

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2111:40Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>Laboratory Data</u> SDG ID: GCI66823

Phoenix ID: Cl66838

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 415 (0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	4.02	0.71	mg/Kg	1	07/08/21	TH	SW6010D
Lead	11.4	0.36	mg/Kg	1	07/08/21	TH	SW6010D
Percent Solid	88		%		07/01/21	AR	SW846-%Solid
Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
Soil Extraction for Pesticide	Completed				07/02/21	L/K	SW3546
Soil Extraction for SVOA PAH	Completed				07/01/21	R/Z	SW3546
Extraction for PCB	Completed				07/01/21	S/KL/AF	SW3540C
Total Metals Digest	Completed				07/02/21	M/AG/BI	= SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	07/06/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/06/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	98		%	1	07/06/21	JRB	50 - 150 %
% Terphenyl (surr)	96		%	1	07/06/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1221	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1232	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1242	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1248	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1254	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1260	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1262	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1268	ND	180	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates							

Client ID: MHS 415 (0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
	87	ı QL	%				
% DCBP (Confirmation)	101		%	5 5	07/02/21 07/02/21	SC SC	30 - 150 % 30 - 150 %
% DCBP (Confirmation)					07/02/21		
% TCMX (Confirmation)	79		% %	5		SC SC	30 - 150 %
% TCMX (Confirmation)	92		%	5	07/02/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
a-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Alachlor	ND	7.4	ug/Kg	2	07/07/21	CG	SW8081B
Aldrin	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
b-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Chlordane	ND	37	ug/Kg	2	07/07/21	CG	SW8081B
d-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	07/07/21	CG	SW8081B
Endrin	ND	7.4	ug/Kg	2	07/07/21	CG	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	07/07/21	CG	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	07/07/21	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	07/07/21	CG	SW8081B
Methoxychlor	ND	37	ug/Kg	2	07/07/21	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/07/21	CG	SW8081B
QA/QC Surrogates			-99				
% DCBP	76		%	2	07/07/21	CG	30 - 150 %
% DCBP (Confirmation)	63		%	2	07/07/21	CG	30 - 150 %
% TCMX	71		%	2	07/07/21	CG	30 - 150 %
% TCMX (Confirmation)	68		%	2	07/07/21	CG	30 - 150 %
Dahaasalaan Anamadia I	10						
Polynuclear Aromatic I							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Fluoranthene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D

Client ID: MHS 415 (0.5)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	ND	260	ug/Kg	1	07/02/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	87		%	1	07/02/21	WB	30 - 130 %
% Nitrobenzene-d5	88		%	1	07/02/21	WB	30 - 130 %
% Terphenyl-d14	75		%	1	07/02/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2111:45Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

D. /

P.O.#: 150439 MILL HILL Laboratory Data

SDG ID: GCI66823

Phoenix ID: Cl66839

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 416 (1)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	3.71	0.82	mg/Kg	1	07/08/21	CPP	SW6010D
Lead	12.5	0.41	mg/Kg	1	07/08/21	CPP	SW6010D
Percent Solid	87		%		07/01/21	AR	SW846-%Solid
Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
Soil Extraction for Pesticide	Completed				07/02/21	L/K	SW3546
Soil Extraction for SVOA PAH	Completed				07/02/21	R/K	SW3546
Extraction for PCB	Completed				07/01/21	S/KL/AR	SW3540C
Total Metals Digest	Completed				07/02/21	M/AG/BF	= SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	07/03/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/03/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	52		%	1	07/03/21	JRB	50 - 150 %
% Terphenyl (surr)	95		%	1	07/03/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1221	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1232	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1242	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1248	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1254	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1260	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1262	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1268	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates							

Client ID: MHS 416 (1)

, ,		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% DCBP	82		%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	93		%	5	07/02/21	SC	30 - 150 %
% TCMX	74		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	83		%	5	07/02/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
a-BHC	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
Alachlor	ND	7.6	ug/Kg	2	07/06/21	CG	SW8081B
Aldrin	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
b-BHC	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
Chlordane	ND	38	ug/Kg	2	07/06/21	CG	SW8081B
d-BHC	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan I	ND	7.6	ug/Kg		07/06/21	CG	SW8081B
Endosulfan II	ND	7.6	ug/Kg ug/Kg	2	07/06/21	CG	SW8081B
	ND	7.6	ug/Kg ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan sulfate	ND	7.6		2	07/06/21	CG	SW8081B
Endrin			ug/Kg	2			
Endrin aldehyde	ND	7.6	ug/Kg	2	07/06/21	CG	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	07/06/21	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	07/06/21	CG	SW8081B
Methoxychlor —	ND	38	ug/Kg	2	07/06/21	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/06/21	CG	SW8081B
QA/QC Surrogates				_			
% DCBP	77		%	2	07/06/21	CG	30 - 150 %
% DCBP (Confirmation)	68		%	2	07/06/21	CG	30 - 150 %
% TCMX	64		%	2	07/06/21	CG	30 - 150 %
% TCMX (Confirmation)	63		%	2	07/06/21	CG	30 - 150 %
Polynuclear Aromatic	HC						
2-Methylnaphthalene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Fluoranthene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Phenanthrene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
1 Honarianono	110	2.0	ug/11g	•	01,00/21	.,,	0.102.02

Client ID: MHS 416 (1)

	RL/					
Result	PQL	Units	Dilution	Date/Time	Ву	Reference
ND	270	ug/Kg	1	07/03/21	WB	SW8270D
79		%	1	07/03/21	WB	30 - 130 %
84		%	1	07/03/21	WB	30 - 130 %
83		%	1	07/03/21	WB	30 - 130 %
	ND 79 84	Result PQL  ND 270  79 84	Result         PQL         Units           ND         270         ug/Kg           79         %           84         %	Result         PQL         Units         Dilution           ND         270         ug/Kg         1           79         %         1           84         %         1	Result         PQL         Units         Dilution         Date/Time           ND         270         ug/Kg         1         07/03/21           79         %         1         07/03/21           84         %         1         07/03/21	Result         PQL         Units         Dilution         Date/Time         By           ND         270         ug/Kg         1         07/03/21         WB           79         %         1         07/03/21         WB           84         %         1         07/03/21         WB

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2112:15Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL Laboratory Data

SDG ID: GCI66823

Phoenix ID: CI66840

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHB 417 (1)

Darameter	Dogult	RL/ PQL	Llaita	Dilution	Date/Time	Dv	Deference
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	3.37	0.81	mg/Kg	1	07/08/21	CPP	SW6010D
Lead	8.18	0.41	mg/Kg	1	07/08/21	CPP	SW6010D
Percent Solid	88		%		07/01/21	AR	SW846-%Solid
Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
Soil Extraction for Pesticide	Completed				07/02/21	L/K	SW3546
Soil Extraction for SVOA PAH	Completed				07/02/21	R/K	SW3546
Extraction for PCB	Completed				07/01/21	S/KL/AF	SW3540C
Total Metals Digest	Completed				07/02/21	M/AG/BI	F SW3050B
TPH by GC (Extractable	Products	s)					
Ext. Petroleum H.C. (C9-C36)	ND	<b>5</b> 7	mg/Kg	1	07/03/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/03/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	74		%	1	07/03/21	JRB	50 - 150 %
% Terphenyl (surr)	97		%	1	07/03/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	180	ug/Kg	5	07/03/21	SC	SW8082A
PCB-1221	ND	180	ug/Kg	5	07/03/21	SC	SW8082A
PCB-1232	ND	180	ug/Kg	5	07/03/21	SC	SW8082A
PCB-1242	ND	180	ug/Kg	5	07/03/21	SC	SW8082A
PCB-1248	ND	180	ug/Kg	5	07/03/21	SC	SW8082A
PCB-1254	ND	180	ug/Kg	5	07/03/21	SC	SW8082A
PCB-1260	ND	180	ug/Kg	5	07/03/21	SC	SW8082A
PCB-1262	ND	180	ug/Kg	5	07/03/21	SC	SW8082A
PCB-1268	ND	180	ug/Kg	5	07/03/21	SC	SW8082A
QA/QC Surrogates							

Client ID: MHB 417 (1)

	<b>5</b>	RL/		<b>5</b> 11 41	D . (T)	_	5.
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% DCBP	81		%	5	07/03/21	SC	30 - 150 %
% DCBP (Confirmation)	91		%	5	07/03/21	SC	30 - 150 %
% TCMX	64		%	5	07/03/21	SC	30 - 150 %
% TCMX (Confirmation)	73		%	5	07/03/21	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
a-BHC	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
Alachlor	ND	7.5	ug/Kg	2	07/06/21	CG	SW8081B
Aldrin	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
b-BHC	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
Chlordane	ND	38	ug/Kg	2	07/06/21	CG	SW8081B
d-BHC	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	07/06/21	CG	SW8081B
Endrin	ND	7.5	ug/Kg	2	07/06/21	CG	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	07/06/21	CG	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	07/06/21	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	07/06/21	CG	SW8081B
Methoxychlor	ND	38	ug/Kg	2	07/06/21	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/06/21	CG	SW8081B
QA/QC Surrogates		.00	<i>∝</i> g,g	_	0.7007=		01100012
% DCBP	72		%	2	07/06/21	CG	30 - 150 %
% DCBP (Confirmation)	74		%	2	07/06/21	CG	30 - 150 %
% TCMX	70		%	2	07/06/21	CG	30 - 150 %
% TCMX (Confirmation)	70		%	2	07/06/21	CG	30 - 150 %
	•						
Polynuclear Aromatic H							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/03/21	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	07/03/21	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	07/03/21	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	07/03/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/03/21	WB	SW8270D
Fluoranthene	ND	260	ug/Kg	1	07/03/21	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	07/03/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	07/03/21	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/03/21	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	07/03/21	WB	SW8270D

Client ID: MHB 417 (1)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	ND	260	ug/Kg	1	07/03/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	78		%	1	07/03/21	WB	30 - 130 %
% Nitrobenzene-d5	79		%	1	07/03/21	WB	30 - 130 %
% Terphenyl-d14	89		%	1	07/03/21	WB	30 - 130 %
% Terpnenyi-a14	89		%	7	07/03/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2112:20Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>Laboratory Data</u> SDG ID: GCI66823

Phoenix ID: Cl66841

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 418 (0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	2.80	0.74	mg/Kg	1	07/08/21	CPP	SW6010D
Lead	6.81	0.37	mg/Kg	1	07/08/21	CPP	SW6010D
Percent Solid	86		%		07/01/21	AR	SW846-%Solid
Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
Soil Extraction for Pesticide	Completed				07/02/21	L/K	SW3546
Soil Extraction for SVOA PAH	Completed				07/02/21	R/K	SW3546
Extraction for PCB	Completed				07/01/21	S/KL/AF	R SW3540C
Total Metals Digest	Completed				07/02/21	M/AG/BI	F SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	07/03/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/03/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	57		%	1	07/03/21	JRB	50 - 150 %
% Terphenyl (surr)	96		%	1	07/03/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1221	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1232	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1242	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1248	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1254	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1260	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1262	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1268	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates							

Client ID: MHS 418 (0.5)

Demonstra	D II	RL/	11.26	Direction	Data /Time	_	Deference
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% DCBP	61		%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	71		%	5	07/02/21	SC	30 - 150 %
% TCMX	56		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	65		%	5	07/02/21	SC	30 - 150 %
Pesticides Pesticides							
4,4' -DDD	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
a-BHC	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
Alachlor	ND	7.6	ug/Kg	2	07/06/21	CG	SW8081B
Aldrin	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
b-BHC	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
Chlordane	ND	38	ug/Kg	2	07/06/21	CG	SW8081B
d-BHC	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	07/06/21	CG	SW8081B
Endrin	ND	7.6	ug/Kg	2	07/06/21	CG	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	07/06/21	CG	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	07/06/21	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	07/06/21	CG	SW8081B
Methoxychlor	ND	38	ug/Kg	2	07/06/21	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/06/21	CG	SW8081B
QA/QC Surrogates			3. 3				
% DCBP	77		%	2	07/06/21	CG	30 - 150 %
% DCBP (Confirmation)	77		%	2	07/06/21	CG	30 - 150 %
% TCMX	75		%	2	07/06/21	CG	30 - 150 %
% TCMX (Confirmation)	73		%	2	07/06/21	CG	30 - 150 %
Delymusiasy Avamatia II	<u></u>						
Polynuclear Aromatic H							
2-Methylnaphthalene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Fluoranthene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Phenanthrene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D

Client ID: MHS 418 (0.5)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	77		%	1	07/03/21	WB	30 - 130 %
% Nitrobenzene-d5	80		%	1	07/03/21	WB	30 - 130 %
% Terphenyl-d14	83		%	1	07/03/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

**Sample Information Custody Information Date** <u>Time</u> Collected by: 07/01/21 12:30 Matrix: SOIL Received by: Location Code: **TIGHE-DAS** CP 07/01/21 17:35

Rush Request: Standard Analyzed by: see "By" below

150439 MILL HILL P.O.#:

\_aboratory Data SDG ID: GCI66823

Phoenix ID: CI66842

MILL HILL ELEM SCHOOL Project ID:

Client ID: MHB 419 (1`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	3.39	0.75	mg/Kg	1	07/08/21	CPP	SW6010D
Lead	6.71	0.37	mg/Kg	1	07/08/21	CPP	SW6010D
Percent Solid	87	0.0.	%	·	07/01/21	AR	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/06/21	L/K	SW3545A
Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
Soil Extraction for SVOA PAH	Completed				07/06/21	R/Z	SW3546
Extraction for PCB	Completed				07/01/21	S/KL/AF	8 SW3540C
SPLP Extraction for Organics	Completed				07/13/21	AB	SW1312
SPLP Semivolatiles (SIM) Ext.	Completed				07/14/21	P/CG	SW3510C/SW3520C
Total Metals Digest	Completed				07/02/21		F SW3050B
TPH by GC (Extractable	e Products	3)					
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	07/03/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/03/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	84		%	1	07/03/21	JRB	50 - 150 %
% Terphenyl (surr)	102		%	1	07/03/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	C)						
PCB-1016	 ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1221	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1232	ND	190	ug/Kg	5	07/02/21	sc	SW8082A
PCB-1242	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1248	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1254	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1260	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1262	ND	190	ug/Kg	5	07/02/21	SC	SW8082A

Client ID: MHB 419 (1`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
PCB-1268	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates	ND	100	ug/itg	Ü	01/02/21	00	OW0002/1
% DCBP	77		%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	93		%	5	07/02/21	SC	30 - 150 %
% TCMX	78		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	97		%	5	07/02/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDE	ND	1.5	ug/Kg ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDT	ND	1.5	ug/Kg ug/Kg	2	07/07/21	CG	SW8081B
a-BHC	ND	1.5	ug/Kg ug/Kg	2	07/07/21	CG	SW8081B
Alachlor	ND	7.5	ug/Kg ug/Kg	2	07/07/21	CG	SW8081B
Aldrin	ND	7.5 1.5	ug/Kg ug/Kg	2	07/07/21	CG	SW8081B
b-BHC	ND	1.5	ug/Kg ug/Kg	2	07/07/21	CG	SW8081B
	ND	37	ug/Kg ug/Kg		07/07/21	CG	SW8081B
Chlordane				2			
d-BHC	ND ND	1.5 3.7	ug/Kg ug/Kg	2 2	07/07/21 07/07/21	CG CG	SW8081B SW8081B
Dieldrin							
Endosulfan I	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Endrin	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Methoxychlor	ND	37	ug/Kg	2	07/07/21	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/07/21	CG	SW8081B
QA/QC Surrogates	FO		0/	2	07/07/04	00	20 450.0/
% DCBP	53		%	2	07/07/21	CG	30 - 150 %
% DCBP (Confirmation)	49		%	2	07/07/21	CG	30 - 150 %
% TCMX	45 45		%	2	07/07/21	CG	30 - 150 %
% TCMX (Confirmation)	45		%	2	07/07/21	CG	30 - 150 %
Polynuclear Aromatic HO							
2-Methylnaphthalene	ND	270	ug/Kg	1	07/07/21	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	07/07/21	WB	SW8270D
Acenaphthylene	650	270	ug/Kg	1	07/07/21	WB	SW8270D
Anthracene	950	270	ug/Kg	1	07/07/21	WB	SW8270D
Benz(a)anthracene	2000	270	ug/Kg	1	07/07/21	WB	SW8270D
Benzo(a)pyrene	1500	270	ug/Kg	1	07/07/21	WB	SW8270D
Benzo(b)fluoranthene	1300	270	ug/Kg	1	07/07/21	WB	SW8270D
Benzo(ghi)perylene	910	270	ug/Kg	1	07/07/21	WB	SW8270D
Benzo(k)fluoranthene	1300	270	ug/Kg	1	07/07/21	WB	SW8270D
Chrysene	2100	270	ug/Kg	1	07/07/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	07/07/21	WB	SW8270D
Fluoranthene	4200	270	ug/Kg	1	07/07/21	WB	SW8270D
Fluorene	480	270	ug/Kg	1	07/07/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	910	270	ug/Kg	1	07/07/21	WB	SW8270D

Client ID: MHB 419 (1`)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Naphthalene	ND	270	ug/Kg	1	07/07/21	WB	SW8270D
Phenanthrene	3800	270	ug/Kg	1	07/07/21	WB	SW8270D
Pyrene	3800	270	ug/Kg	1	07/07/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	83		%	1	07/07/21	WB	30 - 130 %
% Nitrobenzene-d5	80		%	1	07/07/21	WB	30 - 130 %
% Terphenyl-d14	80		%	1	07/07/21	WB	30 - 130 %
SPLP Semivolatiles by	SIM						
2-Methylnaphthalene	ND	0.50	ug/L	1	07/15/21	WB	SW8270D (SIM)
Acenaphthene	ND	0.50	ug/L	1	07/15/21	WB	SW8270D (SIM)
Acenaphthylene	ND	0.30	ug/L	1	07/15/21	WB	SW8270D (SIM)
Anthracene	ND	0.50	ug/L	1	07/15/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	07/15/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	07/15/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	07/15/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	ug/L	1	07/15/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.30	ug/L	1	07/15/21	WB	SW8270D (SIM)
Chrysene	ND	0.50	ug/L	1	07/15/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	07/15/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.50	ug/L	1	07/15/21	WB	SW8270D (SIM)
Fluorene	ND	0.50	ug/L	1	07/15/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	07/15/21	WB	SW8270D (SIM)
Naphthalene	ND	0.50	ug/L	1	07/15/21	WB	SW8270D (SIM)
Phenanthrene	0.18	0.06	ug/L	1	07/15/21	WB	SW8270D (SIM)
Pyrene	ND	0.50	ug/L	1	07/15/21	WB	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	58		%	1	07/15/21	WB	30 - 130 %
% Nitrobenzene-d5	56		%	1	07/15/21	WB	30 - 130 %
% Terphenyl-d14	67		%	1	07/15/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

## **Comments:**

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2112:40Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL Laboratory Data

SDG ID: GCI66823

Phoenix ID: CI66843

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 420 (0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	3.83	0.80	mg/Kg	1	07/08/21	CPP	SW6010D
Lead	11.5	0.40	mg/Kg	1	07/08/21	CPP	SW6010D
Percent Solid	86		%		07/01/21	AR	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/01/21	B/E	SW3545A
Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
Soil Extraction for SVOA PAH	Completed				07/02/21	R/K	SW3546
Extraction for PCB	Completed				07/01/21	S/KL/AF	SW3540C
Total Metals Digest	Completed				07/02/21	M/AG/BI	F SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	07/03/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/03/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	88		%	1	07/03/21	JRB	50 - 150 %
% Terphenyl (surr)	87		%	1	07/03/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1221	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1232	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1242	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1248	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1254	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1260	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1262	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1268	ND	190	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates							

Client ID: MHS 420 (0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
	77	I QL	%				
% DCBP (Confirmation)	87		%	5 5	07/02/21 07/02/21	SC SC	30 - 150 % 30 - 150 %
% DCBP (Confirmation)	67 71				07/02/21		
% TCMX (Confirmation)			% %	5		SC SC	30 - 150 %
% TCMX (Confirmation)	82		%	5	07/02/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	07/02/21	CG	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	07/02/21	CG	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	07/02/21	CG	SW8081B
a-BHC	ND	1.5	ug/Kg	2	07/02/21	CG	SW8081B
Alachlor	ND	7.6	ug/Kg	2	07/02/21	CG	SW8081B
Aldrin	ND	1.5	ug/Kg	2	07/02/21	CG	SW8081B
b-BHC	ND	1.5	ug/Kg	2	07/02/21	CG	SW8081B
Chlordane	ND	38	ug/Kg	2	07/02/21	CG	SW8081B
d-BHC	ND	1.5	ug/Kg	2	07/02/21	CG	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	07/02/21	CG	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	07/02/21	CG	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	07/02/21	CG	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	07/02/21	CG	SW8081B
Endrin	ND	7.6	ug/Kg	2	07/02/21	CG	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	07/02/21	CG	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	07/02/21	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/02/21	CG	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	07/02/21	CG	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	07/02/21	CG	SW8081B
Methoxychlor	ND	38	ug/Kg	2	07/02/21	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/02/21	CG	SW8081B
QA/QC Surrogates			9.1-9				
% DCBP	61		%	2	07/02/21	CG	30 - 150 %
% DCBP (Confirmation)	62		%	2	07/02/21	CG	30 - 150 %
% TCMX	57		%	2	07/02/21	CG	30 - 150 %
% TCMX (Confirmation)	57		%	2	07/02/21	CG	30 - 150 %
,	_						
Polynuclear Aromatic HO							
2-Methylnaphthalene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Fluoranthene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Phenanthrene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D

Client ID: MHS 420 (0.5)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	41		%	1	07/03/21	WB	30 - 130 %
% Nitrobenzene-d5	39		%	1	07/03/21	WB	30 - 130 %
% Terphenyl-d14	50		%	1	07/03/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# **Analysis Report**

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2112:50Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

**Laboratory Data** 

SDG ID: GCI66823

Phoenix ID: Cl66844

Project ID: MILL HILL ELEM SCHOOL

150439 MILL HILL

Client ID: MHB 421 (1)

P.O.#:

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	4.88	0.75	mg/Kg	1	07/08/21	CPP	SW6010D
Lead	20.1	0.38	mg/Kg	1	07/08/21	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	07/14/21	CPP	SW6010D
SPLP Metals Digestion	Completed		ŭ		07/14/21	AB/AB	SW3010A
Percent Solid	84		%		07/01/21	AR	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/01/21	B/E	SW3545A
Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
Soil Extraction for SVOA PAH	Completed				07/02/21	R/K	SW3546
Extraction for PCB	Completed				07/01/21	S/KL/AR	SW3540C
SPLP Extraction for Metals	Completed				07/13/21	AB	SW1312
Total Metals Digest	Completed				07/02/21	M/AG/BF	SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	07/03/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/03/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	69		%	1	07/03/21	JRB	50 - 150 %
% Terphenyl (surr)	68		%	1	07/03/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1221	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1232	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1242	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1248	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1254	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1260	ND	200	ug/Kg	5	07/02/21	SC	SW8082A

Client ID: MHB 421 (1)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
PCB-1262	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1268	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates							
% DCBP	66		%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	72		%	5	07/02/21	SC	30 - 150 %
% TCMX	48		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	54		%	5	07/02/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.6	ug/Kg	2	07/02/21	CG	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	07/02/21	CG	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	07/02/21	CG	SW8081B
a-BHC	ND	1.6	ug/Kg	2	07/02/21	CG	SW8081B
Alachlor	ND	7.8	ug/Kg	2	07/02/21	CG	SW8081B
Aldrin	ND	1.6	ug/Kg	2	07/02/21	CG	SW8081B
b-BHC	ND	1.6	ug/Kg	2	07/02/21	CG	SW8081B
Chlordane	ND	39	ug/Kg	2	07/02/21	CG	SW8081B
d-BHC	ND	1.6	ug/Kg	2	07/02/21	CG	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	07/02/21	CG	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	07/02/21	CG	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	07/02/21	CG	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	07/02/21	CG	SW8081B
Endrin	ND	7.8	ug/Kg	2	07/02/21	CG	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	07/02/21	CG	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	07/02/21	CG	SW8081B
g-BHC	ND	1.6	ug/Kg	2	07/02/21	CG	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	07/02/21	CG	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	07/02/21	CG	SW8081B
Methoxychlor	ND	39	ug/Kg	2	07/02/21	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	07/02/21	CG	SW8081B
QA/QC Surrogates	110	100	ag/11g	_	01/02/21	00	01100012
% DCBP	59		%	2	07/02/21	CG	30 - 150 %
% DCBP (Confirmation)	62		%	2	07/02/21	CG	
% TCMX	58		%	2	07/02/21	CG	30 - 150 %
% TCMX (Confirmation)	59		%	2	07/02/21	CG	30 - 150 %
,			70	2	01/02/21	00	00 100 /0
Polynuclear Aromatic HO 2-Methylnaphthalene	<u>ئے</u> ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Benz(a)anthracene	320	280	ug/Kg	1	07/03/21	WB	SW8270D
	390	280	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(a)pyrene Benzo(b)fluoranthene	330	280	ug/Kg ug/Kg	1	07/03/21	WB	SW8270D
		280	ug/Kg ug/Kg	1	07/03/21	WB	SW8270D
Benzo(ghi)perylene	280			1			
Benzo(k)fluoranthene	290	280	ug/Kg	1	07/03/21	WB	SW8270D
Chrysene	350 ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Fluoranthene	640	280	ug/Kg	1	07/03/21	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D

Client ID: MHB 421 (1)

	RL/					
Result	PQL	Units	Dilution	Date/Time	Ву	Reference
ND	280	ug/Kg	1	07/03/21	WB	SW8270D
ND	280	ug/Kg	1	07/03/21	WB	SW8270D
420	280	ug/Kg	1	07/03/21	WB	SW8270D
600	280	ug/Kg	1	07/03/21	WB	SW8270D
76		%	1	07/03/21	WB	30 - 130 %
81		%	1	07/03/21	WB	30 - 130 %
81		%	1	07/03/21	WB	30 - 130 %
	ND ND 420 600 76 81	Result PQL  ND 280  ND 280  420 280  600 280  76  81	Result         PQL         Units           ND         280         ug/Kg           ND         280         ug/Kg           420         280         ug/Kg           600         280         ug/Kg           76         %           81         %	Result         PQL         Units         Dilution           ND         280         ug/Kg         1           ND         280         ug/Kg         1           420         280         ug/Kg         1           600         280         ug/Kg         1           76         %         1           81         %         1	Result         PQL         Units         Dilution         Date/Time           ND         280         ug/Kg         1         07/03/21           ND         280         ug/Kg         1         07/03/21           420         280         ug/Kg         1         07/03/21           600         280         ug/Kg         1         07/03/21           76         %         1         07/03/21           81         %         1         07/03/21	Result         PQL         Units         Dilution         Date/Time         By           ND         280         ug/Kg         1         07/03/21         WB           ND         280         ug/Kg         1         07/03/21         WB           420         280         ug/Kg         1         07/03/21         WB           600         280         ug/Kg         1         07/03/21         WB           76         %         1         07/03/21         WB           81         %         1         07/03/21         WB

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/01/2113:00Location Code:TIGHE-DASReceived by:CP07/01/2117:35

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>aboratory Data</u> SDG ID: GCI66823

Phoenix ID: Cl66845

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 422 (0.5)

Arsenic 3.48 0.80 mg/Kg 1 07/08/21 CPP SW6010D Lead 14.8 0.40 mg/Kg 1 07/08/21 CPP SW6010D Percent Solid 84 % 07/01/21 AR SW846-%Solid Soil Extraction for Pesticide Completed 07/02/21 I/Z SW3546 Extraction for Pesticide Completed 07/02/21 I/Z SW3546 Extraction for SVOA PAH Completed 07/02/21 I/Z SW3546 Extraction for PCB Completed 07/02/21 I/Z SW3546 Extraction for PCB Completed 07/02/21 R/K SW3540 Extraction for Organics Completed 07/01/21 S/KL/AR SW3540 CSPLP Extraction for Organics Completed 07/13/21 AB SW1312 SPLP Semivolatiles (SIM) Ext. Completed 07/13/21 AB SW3540 CSPLP Semivolatiles (SIM) Ext. Completed 07/13/21 AB SW3540 CSPLP Semivolatiles (SIM) Ext. Completed 07/13/21 AB SW350C SW3510C/SW3520C Total Metals Digest 07/02/21 M/AG/BF SW3050B CTPH by GC (Extractable Products)  Ext. Petroleum H.C. (C9-C36) ND 59 mg/Kg 1 07/03/21 JRB CTETPH 8015D Identification ND mg/Kg 1 07/03/21 JRB CTETPH 8015D QA/QC Surrogates % COD (surr) 86 % 1 07/03/21 JRB 50 - 150 % TETPH 8015D SW350C SW3520C SW3	Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Lead         14.8         0.40         mg/Kg         1         07/08/21         CPP         SW6010D           Percent Solid         84         %         07/01/21         AR         SW846-%Solid           Soil Extraction for Pesticide         Completed         07/01/21         B/E         SW3545A           Extraction for ETPH         Completed         07/02/21         I/Z         SW3546           Soil Extraction for SVOA PAH         Completed         07/02/21         R/K         SW3546           Extraction for PCB         Completed         07/01/21         skt./ar         SW3546           Extraction for Organics         Completed         07/01/21         skt./ar         SW3540C           SPLP Semivolatiles (SIM) Ext.         Completed         07/13/21         AB         SW1312           SPLP Semivolatiles (SIM) Ext.         Completed         07/10/221         m/AG/BF         SW3540C           TPH by GC (Extractable Products)           Ext. Petroleum H.C. (C9-C36)         ND         59         mg/Kg         1         07/03/21         JRB         CTETPH 8015D           DA/CC Surrogates         S         0         1         07/03/21         JRB         CTETPH 8015D           About Survey         8								
Percent Solid   84							_	
Soil Extraction for Pesticide			0.40		'			
Extraction of ETPH Completed 07/02/21 1/Z SW3546 Soil Extraction for SVOA PAH Completed 07/02/21 R/K SW3546 Extraction for SVOA PAH Completed 07/01/21 S/KL/AR SW3540C SPLP Extraction for Organics Completed 07/13/21 AB SW1312 SPLP Semivolatiles (SIM) Ext. Completed 07/13/21 AB SW3540C SPLP Semivolatiles (SIM) Ext. Completed 07/13/21 AB SW3510C/SW3520C Total Metals Digest Completed 07/10/2/21 MAG/BF SW350DB  TPH by GC (Extractable Products)  Ext. Petroleum H.C. (C9-C36) ND 59 mg/Kg 1 07/03/21 JRB CTETPH 8015D Identification ND mg/Kg 1 07/03/21 JRB CTETPH 8015D  QA/QC Surrogates % COD (surr) 86 % 1 07/03/21 JRB 50 - 150 % % Terphenyl (surr) 85 % 1 07/03/21 JRB 50 - 150 %  PCB (Soxhlet SW3540C)  PCB-1016 ND 200 ug/Kg 5 07/02/21 SC SW8082A PCB-1221 ND 200 ug/Kg 5 07/02/21 SC SW8082A PCB-1232 ND 200 ug/Kg 5 07/02/21 SC SW8082A PCB-1242 ND 200 ug/Kg 5 07/02/21 SC SW8082A PCB-1248 ND 200 ug/Kg 5 07/02/21 SC SW8082A PCB-1248 ND 200 ug/Kg 5 07/02/21 SC SW8082A PCB-1254 ND 200 ug/Kg 5 07/02/21 SC SW8082A PCB-1256 ND 200 ug/Kg 5 07/02/21 SC SW8082A	reicent Solid	04		70		07/01/21	AIX	3 V 0 40- 70 3 0 1 u
Soil Extraction for SVOA PAH   Completed	Soil Extraction for Pesticide	Completed				07/01/21	B/E	SW3545A
Extraction for PCB	Extraction of ETPH	Completed				07/02/21	I/Z	SW3546
SPLP Extraction for Organics         Completed         07/13/21         AB         SW1312           SPLP Semivolatiles (SIM) Ext.         Completed         07/14/21         P/Cg         SW3510C/SW3520C           Total Metals Digest         Completed         07/02/21         M/AG/BF         SW3050B           TPH by GC (Extractable Products)           Ext. Petroleum H.C. (C9-C36)         ND         59         mg/Kg         1         07/03/21         JRB         CTETPH 8015D           Identification         ND         59         mg/Kg         1         07/03/21         JRB         CTETPH 8015D           QA/QC Surrogates         S         W         1         07/03/21         JRB         50 - 150 %           % Terphenyl (surr)         85         %         1         07/03/21         JRB         50 - 150 %           PCB (Soxhlet SW3540C)           PCB (Soxhlet SW3540C)         S         %         1         07/03/21         JRB         50 - 150 %           PCB-1016         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1221         ND         200         ug/Kg         5         07/02/21         SC         SW8082A	Soil Extraction for SVOA PAH	Completed				07/02/21	R/K	SW3546
SPLP Semivolatiles (SIM) Ext.         Completed         07/14/21         P/Cg SW3510C/SW3520C           TOtal Metals Digest         Completed         07/02/21         M/AG/BF SW3050B           TPH by GC (Extractable Products)           Ext. Petroleum H.C. (C9-C36)         ND         59         mg/Kg         1         07/03/21         JRB         CTETPH 8015D           QA/QC Surrogates           % COD (surr)         86         %         1         07/03/21         JRB         50 - 150 %           PCB (Soxhlet SW3540C)           PCB (Soxhlet SW3540C)           PCB-1016         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1221         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1232         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1242         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1248         ND         200         ug/Kg         5<	Extraction for PCB	Completed				07/01/21	S/KL/AR	SW3540C
Total Metals Digest         Completed         07/02/21         MAG/BF SW3050B           TPH by GC (Extractable Products)           Ext. Petroleum H.C. (C9-C36)         ND         59         mg/Kg         1         07/03/21         JRB         CTETPH 8015D           Identification         ND         mg/Kg         1         07/03/21         JRB         CTETPH 8015D           QA/QC Surrogates         Surrogates           % COD (surr)         86         %         1         07/03/21         JRB         50 - 150 %           % Terphenyl (surr)         85         %         1         07/03/21         JRB         50 - 150 %           PCB (Soxhlet SW3540C)           PCB-1016         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1221         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1232         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1242         ND         200         ug/Kg         5         07/02/21         SC         SW8082A <tr< td=""><td>SPLP Extraction for Organics</td><td>Completed</td><td></td><td></td><td></td><td>07/13/21</td><td>AB</td><td>SW1312</td></tr<>	SPLP Extraction for Organics	Completed				07/13/21	AB	SW1312
TPH by GC (Extractable Products)           Ext. Petroleum H.C. (C9-C36)         ND         59         mg/Kg         1         07/03/21         JRB         CTETPH 8015D           Identification         ND         mg/Kg         1         07/03/21         JRB         CTETPH 8015D           QA/QC Surrogates         % COD (surr)         86         %         1         07/03/21         JRB         50 - 150 %           % Terphenyl (surr)         85         %         1         07/03/21         JRB         50 - 150 %           PCB (Soxhlet SW3540C)           PCB-1016         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1221         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1232         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1242         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1248         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1254         ND	SPLP Semivolatiles (SIM) Ext.	Completed				07/14/21	P/CG	SW3510C/SW3520C
Ext. Petroleum H.C. (C9-C36) ND 59 mg/Kg 1 07/03/21 JRB CTETPH 8015D mg/Kg 1 07/03/21 JRB 50 - 150 % mg/Kg 5 07/03/21 JRB 50 - 150 % mg/Kg 5 07/03/21 JRB 50 - 150 % mg/Kg 5 07/02/21 SC SW8082A pCB-1221 ND 200 ug/Kg 5 07/02/21 SC SW8082A pCB-1232 ND 200 ug/Kg 5 07/02/21 SC SW8082A pCB-1242 ND 200 ug/Kg 5 07/02/21 SC SW8082A pCB-1242 ND 200 ug/Kg 5 07/02/21 SC SW8082A pCB-1242 ND 200 ug/Kg 5 07/02/21 SC SW8082A pCB-1248 ND 200 ug/Kg 5 07/02/21 SC SW8082A pCB-1254 ND 200 ug/Kg 5 07/02/21 SC SW8082A pCB-1254 ND 200 ug/Kg 5 07/02/21 SC SW8082A pCB-1254 ND 200 ug/Kg 5 07/02/21 SC SW8082A pCB-1260 ND 200 ug/Kg 5 07/02/21 SC SW8082A	Total Metals Digest	Completed				07/02/21	M/AG/BF	F SW3050B
Ext. Petroleum H.C. (C9-C36) ND 59 mg/Kg 1 07/03/21 JRB CTETPH 8015D mg/Kg 1 07/03/21 JRB 50 - 150 % mg/Kg 5 07/03/21 JRB 50 - 150 % mg/Kg 5 07/03/21 JRB 50 - 150 % mg/Kg 5 07/02/21 SC SW8082A pCB-1221 ND 200 ug/Kg 5 07/02/21 SC SW8082A pCB-1232 ND 200 ug/Kg 5 07/02/21 SC SW8082A pCB-1242 ND 200 ug/Kg 5 07/02/21 SC SW8082A pCB-1242 ND 200 ug/Kg 5 07/02/21 SC SW8082A pCB-1242 ND 200 ug/Kg 5 07/02/21 SC SW8082A pCB-1248 ND 200 ug/Kg 5 07/02/21 SC SW8082A pCB-1254 ND 200 ug/Kg 5 07/02/21 SC SW8082A pCB-1254 ND 200 ug/Kg 5 07/02/21 SC SW8082A pCB-1254 ND 200 ug/Kg 5 07/02/21 SC SW8082A pCB-1260 ND 200 ug/Kg 5 07/02/21 SC SW8082A	TPH by GC (Extractable	e Products	s)					
QA/QC Surrogates         % COD (surr)       86       %       1       07/03/21       JRB       50 - 150 %         % Terphenyl (surr)       85       %       1       07/03/21       JRB       50 - 150 %         PCB (Soxhlet SW3540C)         PCB-1016       ND       200       ug/Kg       5       07/02/21       SC       SW8082A         PCB-1221       ND       200       ug/Kg       5       07/02/21       SC       SW8082A         PCB-1232       ND       200       ug/Kg       5       07/02/21       SC       SW8082A         PCB-1242       ND       200       ug/Kg       5       07/02/21       SC       SW8082A         PCB-1248       ND       200       ug/Kg       5       07/02/21       SC       SW8082A         PCB-1254       ND       200       ug/Kg       5       07/02/21       SC       SW8082A         PCB-1260       ND       200       ug/Kg       5       07/02/21       SC       SW8082A				mg/Kg	1	07/03/21	JRB	CTETPH 8015D
% COD (surr)         86         %         1         07/03/21         JRB         50 - 150 %           % Terphenyl (surr)         85         %         1         07/03/21         JRB         50 - 150 %           PCB (Soxhlet SW3540C)           PCB-1016         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1221         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1232         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1242         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1248         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1254         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1260         ND         200         ug/Kg         5         07/02/21         SC         SW8082A	Identification	ND		mg/Kg	1	07/03/21	JRB	CTETPH 8015D
% Terphenyl (surr)       85       %       1       07/03/21       JRB       50 - 150 %         PCB (Soxhlet SW3540C)         PCB-1016       ND       200       ug/Kg       5       07/02/21       SC       SW8082A         PCB-1221       ND       200       ug/Kg       5       07/02/21       SC       SW8082A         PCB-1232       ND       200       ug/Kg       5       07/02/21       SC       SW8082A         PCB-1242       ND       200       ug/Kg       5       07/02/21       SC       SW8082A         PCB-1248       ND       200       ug/Kg       5       07/02/21       SC       SW8082A         PCB-1254       ND       200       ug/Kg       5       07/02/21       SC       SW8082A         PCB-1260       ND       200       ug/Kg       5       07/02/21       SC       SW8082A	QA/QC Surrogates							
PCB (Soxhlet SW3540C)         PCB-1016       ND       200       ug/Kg       5       07/02/21       SC       SW8082A         PCB-1221       ND       200       ug/Kg       5       07/02/21       SC       SW8082A         PCB-1232       ND       200       ug/Kg       5       07/02/21       SC       SW8082A         PCB-1242       ND       200       ug/Kg       5       07/02/21       SC       SW8082A         PCB-1248       ND       200       ug/Kg       5       07/02/21       SC       SW8082A         PCB-1254       ND       200       ug/Kg       5       07/02/21       SC       SW8082A         PCB-1260       ND       200       ug/Kg       5       07/02/21       SC       SW8082A	% COD (surr)	86		%	1	07/03/21	JRB	50 - 150 %
PCB-1016         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1221         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1232         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1242         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1248         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1254         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1260         ND         200         ug/Kg         5         07/02/21         SC         SW8082A	% Terphenyl (surr)	85		%	1	07/03/21	JRB	50 - 150 %
PCB-1016         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1221         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1232         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1242         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1248         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1254         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1260         ND         200         ug/Kg         5         07/02/21         SC         SW8082A	PCB (Soxhlet SW35400	C)						
PCB-1232         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1242         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1248         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1254         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1260         ND         200         ug/Kg         5         07/02/21         SC         SW8082A			200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1242         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1248         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1254         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1260         ND         200         ug/Kg         5         07/02/21         SC         SW8082A	PCB-1221	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1248         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1254         ND         200         ug/Kg         5         07/02/21         SC         SW8082A           PCB-1260         ND         200         ug/Kg         5         07/02/21         SC         SW8082A	PCB-1232	ND	200		5	07/02/21	SC	SW8082A
PCB-1254 ND 200 ug/Kg 5 07/02/21 SC SW8082A PCB-1260 ND 200 ug/Kg 5 07/02/21 SC SW8082A	PCB-1242	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1260 ND 200 ug/Kg 5 07/02/21 SC SW8082A	PCB-1248	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
	PCB-1254	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
PCB-1262 ND 200 ug/Kg 5 07/02/21 SC SW8082A	PCB-1260	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
	PCB-1262	ND	200	ug/Kg	5	07/02/21	SC	SW8082A

Client ID: MHS 422 (0.5)

Demonstra	D It	RL/	11.26	Direction	Data/Time	_	Deference
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
PCB-1268	ND	200	ug/Kg	5	07/02/21	SC	SW8082A
QA/QC Surrogates				_			
% DCBP	84		%	5	07/02/21	SC	30 - 150 %
% DCBP (Confirmation)	91		%	5	07/02/21	SC	30 - 150 %
% TCMX	78		%	5	07/02/21	SC	30 - 150 %
% TCMX (Confirmation)	92		%	5	07/02/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.6	ug/Kg	2	07/02/21	CG	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	07/02/21	CG	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	07/02/21	CG	SW8081B
a-BHC	ND	1.6	ug/Kg	2	07/02/21	CG	SW8081B
Alachlor	ND	7.8	ug/Kg	2	07/02/21	CG	SW8081B
Aldrin	ND	1.6	ug/Kg	2	07/02/21	CG	SW8081B
b-BHC	ND	1.6	ug/Kg	2	07/02/21	CG	SW8081B
Chlordane	ND	39	ug/Kg	2	07/02/21	CG	SW8081B
d-BHC	ND	1.6	ug/Kg	2	07/02/21	CG	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	07/02/21	CG	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	07/02/21	CG	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	07/02/21	CG	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	07/02/21	CG	SW8081B
Endrin	ND	7.8	ug/Kg	2	07/02/21	CG	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	07/02/21	CG	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	07/02/21	CG	SW8081B
g-BHC	ND	1.6	ug/Kg	2	07/02/21	CG	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	07/02/21	CG	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	07/02/21	CG	SW8081B
Methoxychlor	ND	39	ug/Kg	2	07/02/21	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	07/02/21	CG	SW8081B
QA/QC Surrogates							
% DCBP	56		%	2	07/02/21	CG	30 - 150 %
% DCBP (Confirmation)	61		%	2	07/02/21	CG	30 - 150 %
% TCMX	58		%	2	07/02/21	CG	30 - 150 %
% TCMX (Confirmation)	60		%	2	07/02/21	CG	30 - 150 %
Polynuclear Aromatic H	C						
		200	ua/Ka	1	07/02/21	WB	SW9270D
2-Methylnaphthalene	580	280	ug/Kg	1	07/03/21		SW8270D
Acenaphthene	390	280	ug/Kg	1	07/03/21 07/03/21	WB	SW8270D
Acenaphthylene	2700	280	ug/Kg	1	07/03/21	WB	SW8270D
Anthracene	2200	280	ug/Kg	1		WB	SW8270D
Benz(a)anthracene	4300	280	ug/Kg	1	07/03/21 07/03/21	WB	SW8270D
Benzo(a)pyrene	4300	280	ug/Kg	1		WB	SW8270D
Benzo(b)fluoranthene	3400	280	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(ghi)perylene	2800	280	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(k)fluoranthene	3000	280	ug/Kg	1	07/03/21	WB	SW8270D
Chrysene	4400	280	ug/Kg	1	07/03/21	WB	SW8270D
Dibenz(a,h)anthracene	640	280	ug/Kg	1	07/03/21	WB	SW8270D
Fluoranthene	13000	2800	ug/Kg	10	07/06/21	WB	SW8270D
Fluorene	1700	280	ug/Kg	1	07/03/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	2800	280	ug/Kg	1	07/03/21	WB	SW8270D

Client ID: MHS 422 (0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Naphthalene	680	280	ug/Kg	1	07/03/21	WB	SW8270D
Phenanthrene	13000	2800	ug/Kg	10	07/06/21	WB	SW8270D
Pyrene	12000	2800	ug/Kg	10	07/06/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	76		%	1	07/03/21	WB	30 - 130 %
% Nitrobenzene-d5	87		%	1	07/03/21	WB	30 - 130 %
% Terphenyl-d14	93		%	1	07/03/21	WB	30 - 130 %
% 2-Fluorobiphenyl (10x)	Diluted Out		%	10	07/06/21	WB	30 - 130 %
% Nitrobenzene-d5 (10x)	Diluted Out		%	10	07/06/21	WB	30 - 130 %
% Terphenyl-d14 (10x)	Diluted Out		%	10	07/06/21	WB	30 - 130 %
SPLP Semivolatiles b	oy SIM						
2-Methylnaphthalene	ND	0.53	ug/L	1	07/15/21	WB	SW8270D (SIM)
Acenaphthene	ND	0.53	ug/L	1	07/15/21	WB	SW8270D (SIM)
Acenaphthylene	ND	0.32	ug/L	1	07/15/21	WB	SW8270D (SIM)
Anthracene	ND	0.53	ug/L	1	07/15/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	07/15/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.21	ug/L	1	07/15/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	07/15/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.50	ug/L	1	07/15/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.32	ug/L	1	07/15/21	WB	SW8270D (SIM)
Chrysene	ND	0.53	ug/L	1	07/15/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.11	ug/L	1	07/15/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.53	ug/L	1	07/15/21	WB	SW8270D (SIM)
Fluorene	ND	0.53	ug/L	1	07/15/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.11	ug/L	1	07/15/21	WB	SW8270D (SIM)
Naphthalene	ND	0.53	ug/L	1	07/15/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	07/15/21	WB	SW8270D (SIM)
Pyrene	ND	0.53	ug/L	1	07/15/21	WB	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	56		%	1	07/15/21	WB	30 - 130 %
% Nitrobenzene-d5	55		%	1	07/15/21	WB	30 - 130 %
% Terphenyl-d14	56		%	1	07/15/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

#### **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## QA/QC Report

July 19, 2021

### QA/QC Data

SDG I.D.: GCI66823

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 583388 (mg/l	L), QC Samp	ole No: (	CI66823	(CI6682	3, CI668	329, CI	66835, (	CI6684	4)				
ICP Metals - SPLP Ex	traction_												
Arsenic	BRL	0.004	< 0.004	< 0.004	NC	105	104	1.0	105			80 - 120	20
Lead	BRL	0.010	< 0.010	< 0.010	NC	99.8	99.2	0.6	103			80 - 120	20
Comment:													
Additional Criteria: LCS accept	ptance range	is 80-120	0% MS acc	ceptance	range 75	5-125%.							
QA/QC Batch 582101 (mg/l Cl66835, Cl66836, Cl6683		ple No:	CI66828	(CI6682	28, CI66	5829, C	166830,	CI6683	31, Cl6	6832, C	166833	, CI6683	34,
ICP Metals - Soil													
Arsenic	BRL	0.67	4.19	5.57	28.3	110	111	0.9	93.6			75 - 125	35
Lead	BRL	0.33	17.6	22.0	22.2	112	111	0.9	96.5			75 - 125	35
Comment:													
Additional Criteria: LCS accept	ptance range	is 80-120	0% MS acc	ceptance	range 75	5-125%.							
QA/QC Batch 582153 (mg/kg	kg), QC Sam	nple No:	CI66839	(CI6683	39, CI66	6840, C	166841,	CI6684	42, CI6	6843, C	166844	, CI6684	<b>1</b> 5)
ICP Metals - Soil													
Arsenic	BRL	0.67	3.71	3.27	NC	119	115	3.4	100			75 - 125	35
Lead	BRL	0.33	12.5	10.4	18.3	116	113	2.6	101			75 - 125	35
Comment:													
Additional Criteria: LCS accep	ptance range	is 80-120	0% MS acc	ceptance	range 75	5-125%.							
QA/QC Batch 582100 (mg/l	kg), QC Sam	nple No:	CI67133	(CI6682	23, CI66	6824, C	166825,	CI6682	26, CI6	6827)			
ICP Metals - Soil	<b>o</b> .	•											
Arsenic	BRL	0.67	4.71	5.02	6.40	113	120	6.0	102	103	1.0	75 - 125	35
Lead	BRL	0.33	18.1	16.5	9.20	111	118	6.1	103	102	1.0	75 - 125	35
Comment:													
Additional Criteria: LCS acce	ptance range	is 80-120	0% MS acc	ceptance	range 75	5-125%.							
QA/QC Batch 582159 (mg/l	-			-	_								
ICP Metals - Soil	g,, = = =	.p.o	0.07070	(0.000	,,								
Arsenic	BRL	0.67	1.65	1.67	NC	113	113	0.0	95.8			75 - 125	35
Lead	BRL	0.33	2.03	1.97	3.00	112	108	3.6	95.1			75 - 125 75 - 125	35
Comment:	DILL	0.00	2.03	1.77	3.00	112	100	5.0	70.1			75 125	55
Additional Criteria: LCS accept	ntance range	ic 20.120	0% MS ac	centance	ranga 71	5_125%							
Additional Criteria. LC3 acce	piance range	12 00-120	no ivis acc	epiance	range /:	J- 123%.							



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## QA/QC Report

PCB-1254

ND

170

#### QA/QC Data

July 19, 2021		<u>QA/QC</u>	<u>Data</u>				SDG I	.D.: 0	GC1668	23	
Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 581952 (mg/Kg)	), QC Sam	ple No: Cl66221 (Cl66823)									
TPH by GC (Extractable	Produc	ts) - Soil									
Ext. Petroleum H.C. (C9-C36)	ND	50	74	77	4.0	105	147	33.3	60 - 120	30	r
% COD (surr)	106	%	92	87	5.6	119			50 - 150	30	
% Terphenyl (surr) Comment:	106	%	83	75	10.1	101	147	37.1	50 - 150	30	r
Additional surrogate criteria: LCS normalized based on the alkane			ance range	50-150%	6. The E	TPH/DF	RO LCS I	nas bee	n		
QA/QC Batch 581998 (mg/Kg) Cl66832, Cl66833, Cl66834, G								166829	9, CI668	31,	
TPH by GC (Extractable	Produc	<u>ts) - Soil</u>									
Ext. Petroleum H.C. (C9-C36)	ND	50	117	94	21.8	85	90	5.7	60 - 120	30	
% COD (surr)	108	%	124	112	10.2	130	88	38.5	50 - 150	30	r
% Terphenyl (surr) Comment:	95	%	110	87	23.4	93	78	17.5	50 - 150	30	
Additional surrogate criteria: LCS normalized based on the alkane	S acceptane calibration.	ce range is 60-120% MS accept	ance range	50-150%	6. The E	TPH/DR	O LCS I	nas bee	n		
QA/QC Batch 582122 (mg/Kg)	), QC Sam	ple No: CI67016 (CI66843,	CI66844, C	(166845	)						
TPH by GC (Extractable	Produc	ts) - Soil									
Ext. Petroleum H.C. (C9-C36)	ND	50	74	71	4.1	81	70	14.6	60 - 120	30	
% COD (surr)	100	%	94	89	5.5	91	81	11.6	50 - 150	30	
% Terphenyl (surr)	99	%	86	79	8.5	88	79	10.8	50 - 150	30	
Comment:  Additional surrogate criteria: LCS normalized based on the alkane			ance range	50-150%	6. The E	TPH/DF	RO LCS I	nas bee	n		
QA/QC Batch 582168 (mg/Kg)	OC Sam	nnle No: CI67044 (CI66830)									
TPH by GC (Extractable											
Ext. Petroleum H.C. (C9-C36)	ND	50	108	109	0.9	99	119	18.3	60 - 120	30	
% COD (surr)	152	%	117	68	53.0	126	145	14.0	50 - 150	30	r,s
% Terphenyl (surr) Comment:	150	%	108	106	1.9	97	117	18.7	50 - 150	30	
Additional surrogate criteria: LCS		3	ance range	50-150%	6. The E	TPH/DF	O LCS I	nas bee	n		
normalized based on the alkane			22 (14402	04 (CI66)	025 CI	66026	C14403	)7 CI6	4020 CI	(44020)	
QA/QC Batch 581926 (ug/Kg) Polychlorinated Bipheny		pie No. Closz 13 Tox (Clooo	23, C10002	24, C100	023, CI	00020,	C10002	:7, Clb	3020, CI	00029)	
PCB-1016	ND	170	100	98	2.0	95	90	5.4	40 - 140	30	
PCB-1010 PCB-1221	ND	170	100	70	۷.0	/3	70	J. <del>4</del>	40 - 140	30	
PCB-1232	ND	170							40 - 140	30	
PCB-1242	ND	170							40 - 140	30	
PCB-1248	ND	170							40 - 140	30	

40 - 140 30

SDG I.D.: GCI66823

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
PCB-1260	ND	170	111	102	8.5	99	94	5.2	40 - 140	30	
PCB-1262	ND	170							40 - 140	30	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	73	%	106	109	2.8	110	106	3.7	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	91	%	130	102	24.1	103	94	9.1	30 - 150	30	
% TCMX (Surrogate Rec)	109	%	109	107	1.9	99	95	4.1	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	126	%	121	105	14.2	99	94	5.2	30 - 150	30	
QA/QC Batch 581984 (ug/Kg), Q Cl66837, Cl66838, Cl66839, Cl6	6840, C					66833,	CI6683	4, CI66	6835, CI	66836,	
Polychlorinated Biphenyls	- Soil										
PCB-1016	ND	170	93	90	3.3	69	59	15.6	40 - 140	30	
PCB-1221	ND	170							40 - 140	30	
PCB-1232	ND	170							40 - 140	30	
PCB-1242	ND	170							40 - 140	30	
PCB-1248	ND	170							40 - 140	30	
PCB-1254	ND	170							40 - 140	30	
PCB-1260	ND	170	105	102	2.9	89	79	11.9	40 - 140	30	
PCB-1262	ND	170							40 - 140	30	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	105	%	118	111	6.1	98	87	11.9	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	99	%	112	105	6.5	92	85	7.9	30 - 150	30	
% TCMX (Surrogate Rec)	14	%	94	90	4.3	80	64	22.2	30 - 150	30	s
% TCMX (Surrogate Rec) (Confirm	13	%	93	91	2.2	79	64	21.0	30 - 150	30	s
QA/QC Batch 581919 (ug/Kg), Q	C Sam	ple No: CI66589 2X (CI66843, C	166844	I, CI668	45)						
Pesticides - Soil											
4,4' -DDD	ND	1.7	80	75	6.5	68	72	5.7	40 - 140	30	
4,4' -DDE	ND	1.7	82	73	11.6	67	71	5.8	40 - 140	30	
4,4' -DDT	ND	1.7	76	69	9.7	63	67	6.2	40 - 140	30	
a-BHC	ND	1.0	77	70	9.5	62	66	6.3	40 - 140	30	
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	1.0	74	67	9.9	59	64	8.1	40 - 140	30	
b-BHC	ND	1.0	77	73	5.3	63	66	4.7	40 - 140	30	
Chlordane	ND	33	78	70	10.8	64	69	7.5	40 - 140	30	
d-BHC	ND	3.3	70	63	10.5	57	60	5.1	40 - 140	30	
Dieldrin	ND	1.0	92	83	10.3	79	82	3.7	40 - 140	30	
Endosulfan I	ND	3.3	93	84	10.2	77	81	5.1	40 - 140	30	
Endosulfan II	ND	3.3	113	102	10.2	95	100	5.1	40 - 140	30	
Endosulfan sulfate	ND	3.3	84	76	10.0	69	74	7.0	40 - 140	30	
Endrin	ND	3.3	77	68	12.4	64	70	9.0	40 - 140	30	
Endrin aldehyde	ND	3.3	63	59	6.6	54	56	3.6	40 - 140	30	
Endrin ketone	ND	3.3	80	72	10.5	66	69	4.4	40 - 140	30	
g-BHC	ND	1.0	74	69	7.0	61	64	4.8	40 - 140	30	
Heptachlor	ND	3.3	80	73	9.2	65	69	6.0	40 - 140	30	
Heptachlor epoxide	ND	3.3	74	67	9.9	60	65	8.0	40 - 140	30	
Methoxychlor	ND	3.3	81	72	11.8	78	82	5.0	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	88	%	92	83	10.3	81	83	2.4	30 - 150	30	
% DCBP (Confirmation)	84	%	86	80	7.2	73	78	6.6	30 - 150	30	
% TCMX	76	%	83	78	6.2	69	74	7.0	30 - 150	30	
	, 0		03	70	0.2	07	7 7	7.0	30 - 130	30	

ata SDG I.D.: GCl66823

Parameter	Blank	BIK RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 582022 (ug/Kg), Cl66830, Cl66831, Cl66832, Cl								', CI668	828, CI6	6829,
Pesticides - Soil										
4,4' -DDD	ND	1.7	74	72	2.7	74	62	17.6	40 - 140	30
4,4' -DDE	ND	1.7	71	68	4.3	74	63	16.1	40 - 140	30
4,4' -DDT	ND	1.7	66	64	3.1	68	59	14.2	40 - 140	30
a-BHC	ND	1.0	67	61	9.4	68	55	21.1	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	71	67	5.8	73	62	16.3	40 - 140	30
b-BHC	ND	1.0	71	69	2.9	68	62	9.2	40 - 140	30
Chlordane	ND	33	66	67	1.5	71	60	16.8	40 - 140	30
d-BHC	ND	3.3	66	63	4.7	67	57	16.1	40 - 140	30
Dieldrin	ND	1.0	71	68	4.3	73	62	16.3	40 - 140	30
Endosulfan I	ND	3.3	83	80	3.7	86	73	16.4	40 - 140	30
Endosulfan II	ND	3.3	103	98	5.0	105	90	15.4	40 - 140	30
Endosulfan sulfate	ND	3.3	74	71	4.1	76	65	15.6	40 - 140	30
Endrin	ND	3.3	74	70	5.6	78	68	13.7	40 - 140	30
Endrin aldehyde	ND	3.3	71	67	5.8	68	59	14.2	40 - 140	30
Endrin ketone	ND	3.3	78	73	6.6	76	65	15.6	40 - 140	30
g-BHC	ND	1.0	70	67	4.4	72	60	18.2	40 - 140	30
Heptachlor	ND	3.3	70	67	4.4	72	63	13.3	40 - 140	30
Heptachlor epoxide	ND	3.3	68	65	4.5	70	60	15.4	40 - 140	30
Methoxychlor	ND	3.3	80	71	11.9	76	66	14.1	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	91	%	79	79	0.0	86	75	13.7	30 - 150	30
% DCBP (Confirmation)	83	%	83	79	4.9	84	74	12.7	30 - 150	30
% TCMX	77	%	72	71	1.4	74	67	9.9	30 - 150	30
% TCMX (Confirmation)	72	%	72	71	1.4	74	69	7.0	30 - 150	30
QA/QC Batch 582360 (ug/Kg),	QC Sam	ple No: CI68387 2X (CI66834	, CI66842	2)						
Pesticides - Soil										
4,4' -DDD	ND	1.7	67	73	8.6	50	50	0.0	40 - 140	30
4,4' -DDE	ND	1.7	65	73 71	8.8	49	50	2.0	40 - 140	30
4,4' -DDT	ND	1.7	64	69	7.5	47	48	2.1	40 - 140	30
a-BHC	ND	1.0	61	67	9.4	42	45	6.9	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	59	63	6.6	41	43	4.8	40 - 140	30
b-BHC	ND	1.0	61	64	4.8	43	43	0.0	40 - 140	30
Chlordane	ND	33	67	68	1.5	44	46	4.4	40 - 140	30
d-BHC	ND	3.3	55	59	7.0	39	40	2.5	40 - 140	30
Dieldrin	ND	1.0	76	81	6.4	53	54	1.9	40 - 140	30
Endosulfan I	ND	3.3	76	80	5.1	53	55	3.7	40 - 140	30
Endosulfan II	ND	3.3	92	98	6.3	64	67	4.6	40 - 140	30
Endosulfan sulfate	ND	3.3	66	62	6.3	43	46	6.7	40 - 140	30
Endrin	ND	3.3	67	72	7.2	47	48	2.1	40 - 140	30
Endrin aldehyde	ND	3.3	52	55	5.6	39	39	0.0	40 - 140	30
Endrin ketone	ND	3.3	63	66	4.7	42	44	4.7	40 - 140	30
g-BHC	ND	1.0	59	64	8.1	41	43	4.8	40 - 140	30
Heptachlor	ND	3.3	65	69	6.0	45	46	2.2	40 - 140	30
Heptachlor epoxide	ND	3.3	61	65	6.3	42	44	4.7	40 - 140	30
Methoxychlor	ND	3.3	70	74	5.6	52	50	3.9	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	67	%	77	78	1.3	52	54	3.8	30 - 150	30

SDG I.D.: GCI66823

% % **LCSD RPD** Blk LCS LCS MS **MSD** MS Rec Blank RL **RPD** % % RPD Limits Limits % % Parameter % DCBP (Confirmation) 70 % 70 70 44 45 0.0 2.2 30 - 150 30 % TCMX 66 % 74 73 1.4 49 51 4.0 30 - 150 30 % TCMX (Confirmation) 69 % 69 70 1.4 47 48 2.1 30 - 150 30 QA/QC Batch 581985 (ug/kg), QC Sample No: Cl66823 (Cl66823, Cl66824, Cl66825, Cl66826, Cl66827, Cl66828, Cl66829, Cl66830, Cl66831, Cl66832, Cl66833, Cl66834, Cl66835, Cl66836, Cl66837, Cl66838) Polynuclear Aromatic HC - Soil 72 2-Methylnaphthalene 230 90 22.2 87 82 5.9 40 - 140 30 Acenaphthene ND 230 94 81 14.9 91 85 6.8 30 - 130 30 Acenaphthylene ND 230 82 75 8.9 83 78 6.2 40 - 140 30 ND 230 93 83 92 89 40 - 140 30 Anthracene 11.4 3.3 Benz(a)anthracene ND 230 94 83 12.4 92 92 0.0 40 - 140 30 ND 87 79 9.6 Benzo(a)pyrene 230 88 85 3.5 40 - 140 30 Benzo(b)fluoranthene ND 230 96 82 15.7 93 96 3.2 40 - 140 30 Benzo(ghi)perylene ND 230 100 88 12.8 99 100 1.0 40 - 140 30 ND 80 79 Benzo(k)fluoranthene 230 84 4.9 88 10.8 40 - 140 30 ND Chrysene 230 93 81 13.8 90 89 1.1 40 - 140 30 Dibenz(a,h)anthracene ND 230 97 85 13.2 95 93 2.1 40 - 140 30 79 ND 88 10.8 90 Fluoranthene 230 86 4.5 40 - 140 30 Fluorene ND 230 87 77 12.2 87 84 3.5 40 - 140 30 79 Indeno(1,2,3-cd)pyrene ND 230 89 11.9 88 87 1.1 40 - 140 30 96 ND 230 76 23.3 90 85 Naphthalene 5.7 40 - 140 30 Phenanthrene ND 230 93 81 13.8 91 87 40 - 140 4.5 30 ND 79 91 230 90 13.0 87 30 - 130 Pyrene 4.5 30 % 2-Fluorobiphenyl 89 % 85 73 15.2 83 78 6.2 30 - 130 30 % 91 78 90 % Nitrobenzene-d5 86 15.4 84 6.9 30 - 130 30 77 % Terphenyl-d14 82 % 86 11.0 88 82 7.1 30 - 130 30 Comment: Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%) QA/QC Batch 582357 (ug/kg), QC Sample No: CI66842 (CI66842) Polynuclear Aromatic HC - Soil 2-Methylnaphthalene ND 230 75 82 8.9 85 82 3.6 40 - 140 30 ND 230 77 91 16.7 89 80 10.7 30 - 130 30 Acenaphthene ND 71 84 70 Acenaphthylene 230 16.8 61 13.7 40 - 140 30 ND 230 77 93 18.8 64 59 Anthracene 8.1 40 - 140 30 Benz(a)anthracene ND 230 75 91 19.3 38 34 11.1 40 - 140 30 m ND 230 73 89 19.8 47 Benzo(a)pyrene 43 8.9 40 - 140 30 Benzo(b)fluoranthene ND 230 78 93 17.5 59 60 40 - 140 1.7 30 ND 230 87 107 20.6 74 72 Benzo(ghi)perylene 2.7 40 - 140 30 ND 70 87 52 42 Benzo(k)fluoranthene 230 21.7 21.3 40 - 140 30 ND 230 75 91 19.3 37 33 Chrysene 11.4 40 - 140 30 m 78 Dibenz(a,h)anthracene ND 230 100 24.7 82 80 2.5 40 - 140 30 Fluoranthene ND 230 77 91 16.7 <10 <10 NC 40 - 140 30 m Fluorene ND 230 75 88 16.0 75 67 11.3 40 - 140 30 ND 77 94 Indeno(1,2,3-cd)pyrene 230 19.9 63 61 3.2 40 - 140 30 Naphthalene ND 230 78 84 7.4 84 81 3.6 40 - 140 30

76

76

71

80

78

91

89

83

78

88

18.0

15.8

15.6

2.5

12.0

<10

<10

77

82

93

<10

<10

71

78

86

NC

NC

8.1

5.0

7.8

40 - 140

30 - 130

30 - 130

30 - 130

30 - 130

30

30

30

30

30

m

Phenanthrene

% 2-Fluorobiphenyl

% Nitrobenzene-d5

% Terphenyl-d14

Pyrene

ND

ND

79

80

76

230

230

%

%

%

QA/QC Data SDG I.D.: GCI66823

	DI I	Blk	LCS	LCSD	LCS	MS	MSD	MS	% Rec	% RPD	
Parameter	Blank	KL	%	%	RPD	%	%	RPD	Limits	Limits	
Comment:											
Additional 8270 criteria: 20% of acceptance range for aqueous s		can be outside of acceptance cri -110%, for soils 30-130%)	teria as lo	ng as rec	overy is	at least	10%. (A	cid surro	ogates		
QA/QC Batch 582114 (ug/kg)	, QC Sam	ole No: CI67150 (CI66839, CI	66840, C	166841,	CI6684	3, CI66	844, CI	66845)	)		
Semivolatiles - Soil											
2-Methylnaphthalene	ND	230	63	75	17.4	79	75	5.2	40 - 140	30	
Acenaphthene	ND	230	74	81	9.0	87	81	7.1	30 - 130	30	
Acenaphthylene	ND	130	68	76	11.1	81	76	6.4	40 - 140	30	
Anthracene	ND	230	76	82	7.6	89	81	9.4	40 - 140	30	
Benz(a)anthracene	ND	230	74	83	11.5	90	85	5.7	40 - 140	30	
Benzo(a)pyrene	ND	130	73	80	9.2	87	80	8.4	40 - 140	30	
Benzo(b)fluoranthene	ND	160	80	85	6.1	95	88	7.7	40 - 140	30	
Benzo(ghi)perylene	ND	230	74	81	9.0	86	81	6.0	40 - 140	30	
Benzo(k)fluoranthene	ND	230	76	85	11.2	90	82	9.3	40 - 140	30	
Chrysene	ND	230	76	83	8.8	91	85	6.8	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	76	82	7.6	87	82	5.9	40 - 140	30	
Fluoranthene	ND	230	74	81	9.0	88	83	5.8	40 - 140	30	
Fluorene	ND	230	75	82	8.9	87	81	7.1	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	77	83	7.5	89	84	5.8	40 - 140	30	
Naphthalene	ND	230	61	74	19.3	78	72	8.0	40 - 140	30	
Phenanthrene	ND	130	76	81	6.4	88	82	7.1	40 - 140	30	
Pyrene	ND	230	76	84	10.0	89	86	3.4	30 - 130	30	
% 2-Fluorobiphenyl	78	%	68	76	11.1	83	76	8.8	30 - 130	30	
% Nitrobenzene-d5	80	%	57	71	21.9	76	75	1.3	30 - 130	30	
% Terphenyl-d14 Comment:	77	%	72	81	11.8	87	81	7.1	30 - 130	30	
	compounds	can be outside of acceptance cri	teria as lo	ng as rec	overy is	at least	10%. (A	cid surro	ogates		
acceptance range for aqueous s	samples: 15	-110%, for soils 30-130%)									
QA/QC Batch 583504 (ug/L),	QC Sampl	e No: CI73101 (CI66837, CI6	6842, Clé	66845)							
Semivolatiles by SIM, P.	AH - SP	<u>LP</u>									
2-Methylnaphthalene	ND	0.50	52	51	1.9				30 - 130	20	
Acenaphthene	ND	0.50	53	61	14.0				30 - 130	20	
Acenaphthylene	ND	0.10	27	53	65.0				30 - 130	20	l,r
Anthracene	ND	0.10	56	64	13.3				30 - 130	20	
Benz(a)anthracene	ND	0.02	54	68	23.0				30 - 130	20	r
Benzo(a)pyrene	ND	0.02	66	69	4.4				30 - 130	20	
Benzo(b)fluoranthene	ND	0.02	88	68	25.6				30 - 130	20	r
Benzo(ghi)perylene	ND	0.02	71	64	10.4				30 - 130	20	
Benzo(k)fluoranthene	ND	0.02	76	61	21.9				30 - 130	20	r
Chrysene	ND	0.02	54	65	18.5				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.02	95	73	26.2				30 - 130	20	r
Fluoranthene	ND	0.50	53	61	14.0				30 - 130	20	
Fluorene	ND	0.10	57	60	5.1				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.02	83	75	10.1				30 - 130	20	
Naphthalene	ND	0.50	53	51	3.8				30 - 130	20	
Phenanthrene	ND	0.06	60	62	3.3				30 - 130	20	
Pyrene	ND	0.07	47	64	30.6				30 - 130	20	r
% 2-Fluorobiphenyl	63	%	57	58	1.7				30 - 130	20	
% Nitrobenzene-d5	66	%	54	59	8.8				30 - 130	20	
% Terphenyl-d14	68	%	60	66	9.5				30 - 130	20	

SDG I.D.: GCI66823 % %

MS

%

Phyllis/Shiller, Laboratory Director

MSD

%

MS

RPD

LCS

RPD

**RPD** 

Rec

Limits Limits

LCSD

%

July 19, 2021

LCS

%

Parameter Comment:

> Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

- $I = This \ parameter \ is \ outside \ laboratory \ LCS/LCSD \ specified \ recovery \ limits.$   $m = This \ parameter \ is \ outside \ laboratory \ MS/MSD \ specified \ recovery \ limits.$
- r = This parameter is outside laboratory RPD specified recovery limits.
- s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

Blk

Blank RL

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

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Monday, July 19, 2021

Criteria: CT: GAM, RC

## Sample Criteria Exceedances Report GCI66823 - TIGHE-DAS

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	Criteria	Units
CI66837	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1100	260	1000	1000	ug/Kg
CI66837	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1900	260	1000	1000	ug/Kg
CI66837	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1700	260	1000	1000	ug/Kg
CI66837	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1700	260	1000	1000	ug/Kg
CI66837	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	1100	260	1000	1000	ug/Kg
CI66837	\$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	1800	260	1000	1000	ug/Kg
CI66837	\$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	1300	260	1000	1000	ug/Kg
CI66837	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1700	260	1000	1000	ug/Kg
CI66837	\$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1900	260	1000	1000	ug/Kg
CI66837	\$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1700	260	1000	1000	ug/Kg
CI66837	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1500	260	1000	1000	ug/Kg
CI66842	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1300	270	1000	1000	ug/Kg
CI66842	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2000	270	1000	1000	ug/Kg
CI66842	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1500	270	1000	1000	ug/Kg
CI66842	\$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	2100	270	1000	1000	ug/Kg
CI66842	\$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	2000	270	1000	1000	ug/Kg
CI66842	\$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1500	270	1000	1000	ug/Kg
CI66842	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1300	270	1000	1000	ug/Kg
CI66842	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1300	270	1000	1000	ug/Kg
CI66845	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	2800	280	1000	1000	ug/Kg
CI66845	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3400	280	1000	1000	ug/Kg
CI66845	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	4300	280	1000	1000	ug/Kg
CI66845	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	4300	280	1000	1000	ug/Kg
CI66845	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	2800	280	1000	1000	ug/Kg
CI66845	\$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	4400	280	1000	1000	ug/Kg
CI66845	\$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	2800	280	1000	1000	ug/Kg
CI66845	\$8100SMR	2-Methylnaphthalene	CT / RSR GA,GAA (mg/kg) / APS Organics	580	280	560	560	ug/Kg
CI66845	\$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	4300	280	1000	1000	ug/Kg
CI66845	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	3000	280	1000	1000	ug/Kg
CI66845	\$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	4300	280	1000	1000	ug/Kg
CI66845	\$8100SMR	Fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	13000	2800	5600	5600	ug/Kg
CI66845	\$8100SMR	Pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	12000	2800	4000	4000	ug/Kg
CI66845	\$8100SMR	Phenanthrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	13000	2800	4000	4000	ug/Kg
CI66845	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	3400	280	1000	1000	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

RL

Analysis



## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. Client: Tighe & Bond

Project Location: MILL HILL ELEM SCHOOL Project Number:

Laboratory Sample ID(s): CI66823-CI66845 Sampling Date(s): 7/1/2021

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 8081, 8082, 8270, ETPH

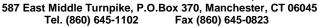
1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes □ No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes □ No
1B	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ✓ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	✓ Yes □ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	✓ Yes □ No □ NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: ETPH Narration, PCB Narration, SVOA Narration, SVOASIM Narration.	☐ Yes 🗹 No
5	a) Were reporting limits specified or referenced on the chain-of-custody?	✓ Yes □ No
	b) Were these reporting limits met?	✓ Yes □ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes 🗹 No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	✓ Yes □ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.
Authorized Signature: Roshui Waket Position: Project Manager
Printed Name: Rashmi Makol Date: Monday, July 19, 2021
Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.







## **RCP Certification Report**

July 19, 2021 SDG I.D.: GCI66823

#### SDG Comments

Metals Analysis:

The client requested a shorter list of elements than the 6010 RCP list. Only Arsenic and Lead are reported as requested on the chain of custody.

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

#### **ETPH Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 581998 (Samples: Cl66824, Cl66825, Cl66826, Cl66827, Cl66828, Cl66829, Cl66831, Cl66832, Cl66833, Cl66834, Cl66835, Cl66836, Cl66837, Cl66839, Cl66840, Cl66841, Cl66842): ----

The MS/MSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% COD (surr))

QC Batch 582168 (Samples: Cl66830): -----

The blank surrogate was above criteria. (% COD (surr)(Cl67044))

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% COD (surr))

Instrument:

#### AU-FID1 07/03/21-1

Jeff Bucko, Chemist 07/03/21

CI66830 (1X)

The initial calibration (ETPH615I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (703A004\_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

#### AU-FID11 07/03/21-1

Jeff Bucko, Chemist 07/03/21

CI66843 (1X), CI66844 (1X), CI66845 (1X)

The initial calibration (ETPH621I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (703A004\_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

#### AU-FID11 07/06/21-1

Jeff Bucko, Chemist 07/06/21

CI66825 (5X), CI66836 (1X), CI66837 (5X), CI66838 (1X)

The initial calibration (ETPH621I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (706A003) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

#### AU-FID22 07/01/21-1

Jeff Bucko, Chemist 07/01/21

CI66823 (1X), CI66828 (1X), CI66831 (1X), CI66833 (1X), CI66839 (1X), CI66840 (1X), CI66841 (1X), CI66842 (1X)

The initial calibration (ETPH601I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (701A037\_1) and contained the following outliers: None.



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#### **ETPH Narration**

The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL1 07/02/21-1

Jeff Bucko, Chemist 07/02/21

CI66829 (1X), CI66832 (1X)

The initial calibration (ETPH506I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (702A003\_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 07/02/21-1

Jeff Bucko, Chemist 07/02/21

CI66824 (1X), CI66826 (1X), CI66827 (1X), CI66834 (1X), CI66835 (1X)

The initial calibration (ETPH326I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (702A003\_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:

Samples: Cl66824, Cl66826, Cl66827, Cl66834, Cl66835

Preceding CC 702A029 - None.

Succeeding CC 702A048 - % Cod (surr) 51%H (30%), % Terphenyl (surr) 61%H (30%), ETPH (C9-C36) 61%H (30%)

#### QC (Batch Specific):

#### Batch 581952 (Cl66221)

CI66823

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

#### Batch 582122 (Cl67016)

CI66843, CI66844, CI66845

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

#### Batch 582168 (CI67044)

CI66830

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: % COD (surr)(53.0%)

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

#### QC (Site Specific):

#### Batch 581998 (Cl66826)

CI66824, CI66825, CI66826, CI66827, CI66828, CI66829, CI66831, CI66832, CI66833, CI66834, CI66835, CI66836, CI66837, CI66838, CI66839, CI66841, CI66842

All LCS recoveries were within 60 - 120 with the following exceptions: None.



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#### **ETPH Narration**

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 50 - 150 with the following exceptions: None.

All MSD recoveries were within 50 - 150 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: % COD (surr)(38.5%)

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

#### ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

#### Instrument:

#### ARCOS 07/08/21 08:20 Cindy Pearce, Tina Hall, Chemist 07/08/21

CI66838, CI66839, CI66840, CI66841, CI66842, CI66843, CI66844, CI66845

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

#### ARCOS 07/09/21 07:38 Tina Hall, Chemist 07/09/21

Cl66823, Cl66824, Cl66825, Cl66826, Cl66827

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

#### ARCOS 07/10/21 09:08 Cindy Pearce, Chemist 07/10/21

Cl66828, Cl66829, Cl66830, Cl66831, Cl66832, Cl66833, Cl66834, Cl66835, Cl66836, Cl66837

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

#### **BLUE 07/14/21 10:22** Cindy Pearce, Chemist 07/14/21

Cl66823, Cl66829, Cl66835, Cl66844

The initial calibration met criteria.

The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.

The continuing calibration blanks were less than the reporting level for the elements reported.

The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria. The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.



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#### ICP Metals Narration

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None. The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

#### QC (Batch Specific):

#### Batch 582100 (CI67133)

CI66823, CI66824, CI66825, CI66826, CI66827

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

#### Batch 582159 (CI67390)

CI66838

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

#### QC (Site Specific):

#### Batch 582101 (Cl66828)

CI66828, CI66829, CI66830, CI66831, CI66832, CI66833, CI66834, CI66835, CI66836, CI66837

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

#### Batch 582153 (Cl66839)

CI66839, CI66840, CI66841, CI66842, CI66843, CI66844, CI66845

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

#### Batch 583388 (CI66823)

Cl66823, Cl66829, Cl66835, Cl66844

All LCS recoveries were within 80 - 120 with the following exceptions: None.

All LCSD recoveries were within 80 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

#### **PCB Narration**



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## **RCP Certification Report**

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#### **PCB Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 581984 (Samples: Cl66830, Cl66831, Cl66832, Cl66833, Cl66834, Cl66835, Cl66836, Cl66837, Cl66838, Cl66839, Cl66840, Cl66841, Cl66842, Cl66843, Cl66844, Cl66845): -----

The blank surrogate was below criteria. (% TCMX (Surrogate Rec)(Cl66830), % TCMX (Surrogate Rec) (Confirmation)(Cl66830))

#### Instrument:

#### AU-ECD24 07/02/21-1

Saadia Chudary, Chemist 07/02/21

CI66829 (5X)

The initial calibration (PC604Al) RSD for the compound list was less than 20% except for the following compounds: None. The initial calibration (PC604Bl) RSD for the compound list was less than 20% except for the following compounds: None. The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

#### AU-ECD3 07/02/21-1

Saadia Chudary, Chemist 07/02/21

CI66826 (5X), CI66830 (5X), CI66831 (5X), CI66832 (5X), CI66833 (5X), CI66834 (5X), CI66835 (5X), CI66836 (5X), CI66837 (5X), CI66838 (5X), CI66839 (5X), CI66840 (5X), CI66841 (5X), CI66842 (5X), CI66842 (5X), CI66844 (5X), CI66845 (5X)

The initial calibration (PC518Al) RSD for the compound list was less than 20% except for the following compounds: None. The initial calibration (PC518Bl) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:

Samples: Cl66826, Cl66832, Cl66833, Cl66836, Cl66837, Cl66840, Cl66841, Cl66845

Preceding CC 702B027 - None.

Succeeding CC 702B040 - TCMX SURR -19%L (15%)

#### AU-ECD5 07/02/21-1

Saadia Chudary, Chemist 07/02/21

Cl66823 (5X), Cl66824 (5X), Cl66825 (5X), Cl66827 (5X), Cl66828 (5X)

The initial calibration (PC518AI) RSD for the compound list was less than 20% except for the following compounds: None. The initial calibration (PC518BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

#### QC (Batch Specific):

#### Batch 581926 (CI63213)

Cl66823, Cl66824, Cl66825, Cl66826, Cl66827, Cl66828, Cl66829

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

#### QC (Site Specific):

#### Batch 581984 (Cl66830)

CI66830, CI66831, CI66832, CI66833, CI66834, CI66835, CI66836, CI66837, CI66838, CI66839, CI66840, CI66841, CI66842, CI66843, CI66844, CI66845

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.



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#### **PCB Narration**

All MSD recoveries were within 40 - 140 with the following exceptions: None. All MS/MSD RPDs were less than 30% with the following exceptions: None.

#### **PEST Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:

#### AU-ECD35 07/06/21-1

Chelsey Guerette, Chemist 07/06/21

CI66833 (2X), CI66835 (1X)

The initial calibration (PS0701AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0701BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.

#### AU-ECD35 07/07/21-1

Chelsey Guerette, Chemist 07/07/21

CI66834 (2X), CI66838 (2X)

The initial calibration (PS0701AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0701BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds:None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.

#### AU-ECD7 07/02/21-1

Chelsey Guerette, Chemist 07/02/21

CI66843 (2X), CI66844 (2X), CI66845 (2X)

The initial calibration (PS0629AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0629BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.

#### AU-ECD7 07/06/21-1

Chelsey Guerette, Chemist 07/06/21

C166823 (2X), C166824 (2X), C166825 (2X), C166826 (2X), C166827 (2X), C166828 (2X), C166829 (2X), C166830 (2X), C166831 (2X), C166832 (2X), C166832 (2X), C166830 (2X), C1

CI66836 (2X), CI66837 (2X), CI66839 (2X), CI66840 (2X), CI66841 (2X)

The initial calibration (PS0629AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0629BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.

#### AU-ECD7 07/07/21-1

Chelsey Guerette, Chemist 07/07/21

CI66842 (2X)

The initial calibration (PS0629AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0629BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.



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## **RCP Certification Report**

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#### **PEST Narration**

#### QC (Batch Specific):

#### Batch 581919 (CI66589)

CI66843, CI66844, CI66845

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

#### Batch 582360 (CI68387)

CI66834, CI66842

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

#### QC (Site Specific):

#### Batch 582022 (CI66823)

CI66823, CI66824, CI66825, CI66826, CI66827, CI66828, CI66829, CI66830, CI66831, CI66832, CI66833, CI66835, CI66836, CI66837, CI66838, CI66839, CI66840, CI66841

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 30 - 150 with the following exceptions: None.

All MSD recoveries were within 30 - 150 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

#### SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 582357 (Samples: Cl66842): -----

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the method criteria, therefore a low bias is likely. (Benz(a)anthracene, Chrysene, Fluoranthene, Phenanthrene, Pyrene)

#### Instrument:

#### CHEM07 07/02/21-1

Matt Richard, Chemist 07/02/21

CI66839 (1X), CI66840 (1X), CI66841 (1X), CI66843 (1X), CI66844 (1X), CI66845 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM07/7\_SPLIT\_0623):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.



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#### **SVOA Narration**

Continuing Calibration Verification (CHEM07/0702\_03-7\_SPLIT\_0623):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

#### **CHEM19 07/02/21-1** Wes Bryon, Chemist 07/02/21

CI66823 (1X), CI66824 (1X), CI66825 (1X), CI66826 (1X), CI66827 (1X), CI66828 (1X), CI66829 (1X), CI66830 (1X), CI66831 (1X), CI66832 (1X), CI66833 (1X), CI66834 (1X), CI66835 (1X), CI66836 (1X), CI66836 (1X), CI66836 (1X), CI66837 (1X), CI66837 (1X), CI66838 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19\_BN\_0504):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0702\_03-19\_BN\_0504):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

#### CHEM19 07/06/21-1

Matt Richard, Chemist 07/06/21

CI66842 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19\_BN\_0504):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0706\_03-19\_BN\_0504):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

#### CHEM29 07/06/21-1

Wes Bryon, Chemist 07/06/21



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## **RCP Certification Report**

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#### **SVOA Narration**

CI66845 (10X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM29/29\_SPLIT\_0622):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM29/0706\_03-29\_SPLIT\_0622):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

#### QC (Batch Specific):

#### Batch 582114 (CI67150)

Cl66839, Cl66840, Cl66841, Cl66843, Cl66844, Cl66845

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

#### QC (Site Specific):

#### Batch 581985 (Cl66823)

CI66823, CI66824, CI66825, CI66826, CI66827, CI66828, CI66829, CI66830, CI66831, CI66832, CI66833, CI66834, CI66835, CI66836, CI66837, CI66838

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

#### Batch 582357 (CI66842)

CI66842

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: Benz(a)anthracene(38%), Chrysene(37%),



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## **RCP Certification Report**

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#### **SVOA Narration**

Fluoranthene(<10%), Phenanthrene(<10%), Pyrene(<10%)

All MSD recoveries were within 40 - 140 with the following exceptions: Benz(a)anthracene(34%), Chrysene(33%),

Fluoranthene(<10%), Phenanthrene(<10%), Pyrene(<10%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

#### **SVOASIM Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 583504 (Samples: Cl66837, Cl66842, Cl66845): -----

The LCS and/or the LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (Acenaphthylene)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenz(a,h)anthracene)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Acenaphthylene, Benz(a)anthracene, Pyrene)

#### Instrument:

#### CHEM25 07/15/21-1 Wes Bryon, Chemist 07/15/21

CI66837 (1X), CI66842 (1X), CI66845 (1X)

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM25/25\_BNSIM18\_0630):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM25/0715\_03-25\_BNSIM18\_0630):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

#### QC (Batch Specific):

#### Batch 583504 (CI73101)

CI66837, CI66842, CI66845

All LCS recoveries were within 30 - 130 with the following exceptions: Acenaphthylene(27%)



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



## **RCP Certification Report**

July 19, 2021 SDG I.D.: GCI66823

#### **SVOASIM Narration**

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: Acenaphthylene(65.0%), Benz(a)anthracene(23.0%), Benzo(b)fluoranthene(25.6%), Benzo(k)fluoranthene(21.9%), Dibenz(a,h)anthracene(26.2%), Pyrene(30.6%) Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

#### QC (Site Specific):

#### Batch 581985 (CI66823)

CI66823, CI66824, CI66825, CI66826, CI66827, CI66828, CI66829, CI66830, CI66831, CI66832, CI66833, CI66834, CI66835, CI66836, CI66837, CI66838

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

#### Batch 582357 (Cl66842)

#### CI66842

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: Benz(a)anthracene(38%), Chrysene(37%),

Fluoranthene(<10%), Phenanthrene(<10%), Pyrene(<10%)

All MSD recoveries were within 40 - 140 with the following exceptions: Benz(a)anthracene(34%), Chrysene(33%),

Fluoranthene(<10%), Phenanthrene(<10%), Pyrene(<10%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

#### **Temperature Narration**

The samples were received at 2.3C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

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FHUE WIX Environmental Laboratories, Inc.	587 East Middle Tumpike, P.O. Box 370, Manchester, CT 06040 Email: info@phoenixlabs.com Fax (860) 645-0823 Client Services (860) 645-8726	Fax: Phone	
Customer:	Project:	Project P.O.	
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1 200007	1 Day* GB Leachability GB Mobility	S-2 GW-1 S-2 GW-2 S-2 GW-3 C	☐ Tier II Checklist ☐ Full Data Package*
	3 Days* GA-GW	Sw Protection	☐ Phoenix Std Report ☐ Other
"MS/MSD are considered site samples and will be billed es such in accordance	GB-GW	State where samples were collected:	SELIGOV SCOVEDOILS .

# Sarah Bell

Jill L. Libby <a href="mailto:com/JLEbby@tigheBond.com/">JLEbby@tigheBond.com/</a>
Tuesday, July 13, 2021 9:02 AM
Sarah Bell
Brian Sirowich
Add-Ons Mill Hill To: Cc: Subject: From: Sent:

Good Morning Sarah,

Could I please get the following add-ons for Standard TAT?

Thanks,

SPLP Pesticides:

MHS 426 7/2/2021 18 in

GCI67319

CI67322

SPLP PAHs

**MHS 422** GCI66823 7/1/2021 CI66845 0.5 ft MHB 419 GCI66823 7/1/2021 CI66842  $1 \, \mathrm{ft}$ **MHB 414** GCI66823 7/1/2021 CI66837 2 ft

SPLP Arsenic:

MHS 430	0.5 ft	7/2/2021	CI67327	GCI67319
MHS 401	1.5 ft	7/1/2021	CI66823	GCI66823
MHS 412	1.5 ft	7/1/2021	CI66835	GCI66823
MHS 407	1.5 ft	7/1/2021	CI66829	GCI66823
MHS 426	18 in	7/2/2021	CI67322	GCI67319
MHS 424	18 in	7/2/2021	CI67320	GCI67319

SPLP Lead

GCI66823	GCI66823	GCI67319	GCI67319	GCI67319	GCI67319
			GCI(		
CI66835	CI66844	CI67328	CI67327	CI67320	CI67322
7/1/2021	7/1/2021	7/2/2021	7/2/2021	7/2/2021	7/2/2021
1.5 ft	1 ft	0.5 ft	0.5 ft	18 in	18 in
MHS 412	MHB 421	MHS 431	MHS 430	MHS 424	MHS 426

Jill Libby Project Environmental Scientist II

**Tighe & Bond** | One University Avenue, Suite 100 | Westwood, MA 02090 | Cell: 315-436-8260 (cell) **www.tighebond.com** | Follow us on: <u>Twitter Facebook LinkedIn</u>

Parties Sorted



Monday, July 19, 2021

Attn: Brian Sirowich Tighe & Bond 213 Court St, Suite 1100 Middletown, CT 06457

**Project ID:** MILL HILL ELEM SCHOOL

SDG ID: GCI67319

Sample ID#s: CI67319 - CI67330

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #M-CT007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003 NY Lab Registration #11301 PA Lab Registration #68-03530

RI Lab Registration #63

**UT Lab Registration #CT00007** VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

July 19, 2021

SDG I.D.: GCI67319

Project ID: MILL HILL ELEM SCHOOL

Client Id	Lab Id	Matrix
MHS 423 (2`)	CI67319	SOIL
MHS 424 (18`)	CI67320	SOIL
MHS 425 (3')	Cl67321	SOIL
MHS 426 (18`)	Cl67322	SOIL
MHS 427 (3`)	CI67323	SOIL
MHS 427D (3`)	Cl67324	SOIL
MHS 428 (0.5`)	Cl67325	SOIL
MHS 429 (1`)	CI67326	SOIL
MHS 430 (0.5`)	Cl67327	SOIL
MHS 431 (0.5`)	CI67328	SOIL
MHS 432 (0.5`)	Cl67329	SOIL
MHS 433 (0.5`)	CI67330	SOIL



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## **Analysis Report**

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/02/219:30Location Code:TIGHE-DASReceived by:B07/02/2114:49

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>Laboratory Data</u> SDG ID: GCI67319

Phoenix ID: Cl67319

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 423 (2`)

_		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	4.96	0.88	mg/Kg	1	07/11/21	CPP	SW6010D
Lead	8.73	0.44	mg/Kg	1	07/11/21	CPP	SW6010D
Percent Solid	79		%		07/02/21	KL	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/02/21	L/E	SW3545A
Extraction of ETPH	Completed				07/02/21	I/E	SW3546
Soil Extraction for SVOA PAH	Completed				07/02/21	R/Z	SW3546
Extraction for PCB	Completed				07/02/21	S/KL	SW3540C
Total Metals Digest	Completed				07/02/21	M/AG/B	F SW3050B
TPH by GC (Extractable	Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	07/04/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/04/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	55		%	1	07/04/21	JRB	50 - 150 %
% Terphenyl (surr)	68		%	1	07/04/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u> </u>						
PCB-1016	ND	200	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1221	ND	200	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1232	ND	200	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1242	ND	200	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1248	ND	200	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1254	ND	200	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1260	ND	200	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1262	ND	200	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1268	ND	200	ug/Kg	5	07/07/21	SC	SW8082A
QA/QC Surrogates							

Project ID: MILL HILL ELEM SCHOOL Phoenix I.D.: CI67319

Client ID: MHS 423 (2`)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% DCBP	72		%	5	07/07/21	SC	30 - 150 %
% DCBP (Confirmation)	65		%	5	07/07/21	SC	30 - 150 %
% TCMX	66		%	5	07/07/21	SC	30 - 150 %
% TCMX (Confirmation)	66		%	5	07/07/21	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.7	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDE	ND	1.7	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDT	ND	1.7	ug/Kg	2	07/07/21	CG	SW8081B
a-BHC	ND	1.7	ug/Kg	2	07/07/21	CG	SW8081B
Alachlor	ND	8.3	ug/Kg	2	07/07/21	CG	SW8081B
Aldrin	ND	1.7	ug/Kg	2	07/07/21	CG	SW8081B
b-BHC	ND	1.7	ug/Kg	2	07/07/21	CG	SW8081B
Chlordane	ND	41	ug/Kg	2	07/07/21	CG	SW8081B
d-BHC	ND	1.7	ug/Kg	2	07/07/21	CG	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan I	ND	8.3	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan II	ND	8.3	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan sulfate	ND	8.3	ug/Kg	2	07/07/21	CG	SW8081B
Endrin	ND	8.3	ug/Kg	2	07/07/21	CG	SW8081B
Endrin aldehyde	ND	8.3	ug/Kg	2	07/07/21	CG	SW8081B
Endrin ketone	ND	8.3	ug/Kg	2	07/07/21	CG	SW8081B
g-BHC	ND	1.7	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor	ND	8.3	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor epoxide	ND	8.3	ug/Kg	2	07/07/21	CG	SW8081B
Methoxychlor	ND	41	ug/Kg	2	07/07/21	CG	SW8081B
Toxaphene	ND	170	ug/Kg	2	07/07/21	CG	SW8081B
QA/QC Surrogates	ND	170	ug/Ng	-	01/01/21	00	OVV0001B
% DCBP	58		%	2	07/07/21	CG	30 - 150 %
% DCBP (Confirmation)	55		%	2	07/07/21	CG	30 - 150 %
% TCMX	55		%	2	07/07/21	CG	30 - 150 %
% TCMX (Confirmation)	56		%	2	07/07/21	CG	30 - 150 %
	_						
Polynuclear Aromatic H							
2-Methylnaphthalene	ND	290	ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthene	ND	290	ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	07/03/21	WB	SW8270D
Anthracene	ND	290	ug/Kg	1	07/03/21	WB	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	07/03/21	WB	SW8270D
Chrysene	ND	290	ug/Kg	1	07/03/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	07/03/21	WB	SW8270D
Fluoranthene	ND	290	ug/Kg	1	07/03/21	WB	SW8270D
Fluorene	ND	290	ug/Kg	1	07/03/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	07/03/21	WB	SW8270D
Naphthalene	ND	290	ug/Kg	1	07/03/21	WB	SW8270D
Phenanthrene	ND	290	ug/Kg	1	07/03/21	WB	SW8270D

Project ID: MILL HILL ELEM SCHOOL Phoenix I.D.: CI67319

Client ID: MHS 423 (2`)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	ND	290	ug/Kg	1	07/03/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	75		%	1	07/03/21	WB	30 - 130 %
% Nitrobenzene-d5	77		%	1	07/03/21	WB	30 - 130 %
% Terphenyl-d14	94		%	1	07/03/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

#### **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

July 19, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/02/219:32Location Code:TIGHE-DASReceived by:B07/02/2114:49

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>Laboratory Data</u> SDG ID: GCI67319

Phoenix ID: CI67320

\_\_\_\_\_\_

MILL HILL ELEM SCHOOL

Client ID: MHS 424 (18`)

Project ID:

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	6.97	0.87	mg/Kg	1	07/11/21	CPP	SW6010D
Lead	25.6	0.43	mg/Kg	1	07/11/21	CPP	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	07/14/21	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	07/14/21	CPP	SW6010D
SPLP Metals Digestion	Completed				07/14/21	AB/AB	SW3010A
Percent Solid	75		%		07/02/21	KL	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/02/21	L/E	SW3545A
Extraction of ETPH	Completed				07/02/21	I/E	SW3546
Soil Extraction for SVOA PAH	Completed				07/02/21	R/Z	SW3546
Extraction for PCB	Completed				07/07/21	H/KL	SW3540C
SPLP Extraction for Metals	Completed				07/13/21	AB	SW1312
Total Metals Digest	Completed				07/02/21	M/AG/BI	= SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	330	mg/Kg	5	07/07/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	07/07/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	71		%	5	07/07/21	JRB	50 - 150 %
% Terphenyl (surr)	71		%	5	07/07/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	220	ug/Kg	5	07/08/21	SC	SW8082A
PCB-1221	ND	220	ug/Kg	5	07/08/21	SC	SW8082A
PCB-1232	ND	220	ug/Kg	5	07/08/21	SC	SW8082A
PCB-1242	ND	220	ug/Kg	5	07/08/21	SC	SW8082A
PCB-1248	ND	220	ug/Kg	5	07/08/21	SC	SW8082A
PCB-1254	ND	220	ug/Kg	5	07/08/21	SC	SW8082A

Project ID: MILL HILL ELEM SCHOOL Phoenix I.D.: CI67320

Client ID: MHS 424 (18`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
	ND	220	ug/Kg	5	07/08/21	SC	SW8082A
PCB-1260 PCB-1262	ND	220	ug/Kg	5	07/08/21	SC	SW8082A
PCB-1268	ND	220	ug/Kg ug/Kg	5	07/08/21	SC	SW8082A
QA/QC Surrogates	ND	220	ug/Ng	J	01/00/21	30	3W0002A
% DCBP	99		%	5	07/08/21	SC	30 - 150 %
% DCBP (Confirmation)	107		%	5	07/08/21	SC	30 - 150 %
% TCMX	94		%	5	07/08/21	SC	30 - 150 %
% TCMX (Confirmation)	95		%	5	07/08/21	SC	30 - 150 %
% TCWX (Committation)	55		70	3	01/00/21	00	30 - 130 70
<u>Pesticides</u>							
4,4' -DDD	ND	1.8	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDE	ND	1.8	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDT	ND	1.8	ug/Kg	2	07/07/21	CG	SW8081B
a-BHC	ND	1.8	ug/Kg	2	07/07/21	CG	SW8081B
Alachlor	ND	8.8	ug/Kg	2	07/07/21	CG	SW8081B
Aldrin	ND	1.8	ug/Kg	2	07/07/21	CG	SW8081B
b-BHC	ND	1.8	ug/Kg	2	07/07/21	CG	SW8081B
Chlordane	ND	44	ug/Kg	2	07/07/21	CG	SW8081B
d-BHC	ND	1.8	ug/Kg	2	07/07/21	CG	SW8081B
Dieldrin	ND	4.4	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan I	ND	8.8	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan II	ND	8.8	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan sulfate	ND	8.8	ug/Kg	2	07/07/21	CG	SW8081B
Endrin	ND	8.8	ug/Kg	2	07/07/21	CG	SW8081B
Endrin aldehyde	ND	8.8	ug/Kg	2	07/07/21	CG	SW8081B
Endrin ketone	ND	8.8	ug/Kg	2	07/07/21	CG	SW8081B
g-BHC	ND	1.8	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor	ND	8.8	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor epoxide	ND	8.8	ug/Kg	2	07/07/21	CG	SW8081B
Methoxychlor	ND	44	ug/Kg	2	07/07/21	CG	SW8081B
Toxaphene	ND	180	ug/Kg	2	07/07/21	CG	SW8081B
QA/QC Surrogates							
% DCBP	57		%	2	07/07/21	CG	30 - 150 %
% DCBP (Confirmation)	55		%	2	07/07/21	CG	30 - 150 %
% TCMX	56		%	2	07/07/21	CG	30 - 150 %
% TCMX (Confirmation)	55		%	2	07/07/21	CG	30 - 150 %
Polynuclear Aromatic H	IC.						
	ND	310	ug/Kg	1	07/03/21	WB	SW8270D
2-Methylnaphthalene	ND	310	ug/Kg ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthulana	330	310	ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	07/03/21	WB	SW8270D
Anthracene	570	310		1	07/03/21	WB	
Benz(a)anthracene	700	310	ug/Kg ug/Kg	1	07/03/21	WB	SW8270D SW8270D
Benzo(a)pyrene							
Benzo(b)fluoranthene	640	310	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(ghi)perylene	410	310	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(k)fluoranthene	630	310	ug/Kg	1	07/03/21	WB	SW8270D
Chrysene	630 ND	310	ug/Kg	1	07/03/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	7	07/03/21	WB	SW8270D
Fluoranthene	1100	310	ug/Kg	1	07/03/21	WB	SW8270D

Project ID: MILL HILL ELEM SCHOOL Phoenix I.D.: CI67320

Client ID: MHS 424 (18`)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Fluorene	ND	310	ug/Kg	1	07/03/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	460	310	ug/Kg	1	07/03/21	WB	SW8270D
Naphthalene	ND	310	ug/Kg	1	07/03/21	WB	SW8270D
Phenanthrene	440	310	ug/Kg	1	07/03/21	WB	SW8270D
Pyrene	1100	310	ug/Kg	1	07/03/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	75		%	1	07/03/21	WB	30 - 130 %
% Nitrobenzene-d5	81		%	1	07/03/21	WB	30 - 130 %
% Terphenyl-d14	88		%	1	07/03/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

#### Comments:

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Phyllis Shiller, Laboratory Director

July 19, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## **Analysis Report**

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/02/219:34Location Code:TIGHE-DASReceived by:B07/02/2114:49

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>aboratory Data</u> SDG ID: GCI67319

Phoenix ID: Cl67321

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 425 (3')

Description	D !!	RL/	11.9.	Dil die	Data /Time	_	Defense
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	3.85	0.85	mg/Kg	1	07/11/21	CPP	SW6010D
Lead	8.62	0.42	mg/Kg	1	07/11/21	CPP	SW6010D
Percent Solid	82		%		07/02/21	KL	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/02/21	L/E	SW3545A
Extraction of ETPH	Completed				07/02/21	I/E	SW3546
Soil Extraction for SVOA PAH	Completed				07/02/21	R/Z	SW3546
Extraction for PCB	Completed				07/02/21	S/KL	SW3540C
Total Metals Digest	Completed				07/02/21	M/AG/B	F SW3050B
TPH by GC (Extractable	Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	07/04/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/04/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	59		%	1	07/04/21	JRB	50 - 150 %
% Terphenyl (surr)	65		%	1	07/04/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1221	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1232	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1242	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1248	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1254	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1260	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1262	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1268	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
QA/QC Surrogates							

Project ID: MILL HILL ELEM SCHOOL Phoenix I.D.: CI67321

Client ID: MHS 425 (3')

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% DCBP	61		%	5	07/06/21	SC	30 - 150 %
% DCBP (Confirmation)	61		%	5	07/06/21	SC	30 - 150 %
% TCMX	46		%	5	07/06/21	SC	30 - 150 %
% TCMX (Confirmation)	45		%	5	07/06/21	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
a-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Alachlor	ND	8.0	ug/Kg	2	07/07/21	CG	SW8081B
Aldrin	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
b-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Chlordane	ND	40	ug/Kg	2	07/07/21	CG	SW8081B
d-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan I	ND	8.0	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan sulfate	ND	8.0	ug/Kg	2	07/07/21	CG	SW8081B
Endrin	ND	8.0	ug/Kg	2	07/07/21	CG	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	07/07/21	CG	SW8081B
Endrin ketone	ND	8.0	ug/Kg	2	07/07/21	CG	SW8081B
g-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor	ND	8.0	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor epoxide	ND	8.0	ug/Kg	2	07/07/21	CG	SW8081B
Methoxychlor	ND	40	ug/Kg	2	07/07/21	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	07/07/21	CG	SW8081B
QA/QC Surrogates		.00	~g/g	_	0.,0.,		01100012
% DCBP	69		%	2	07/07/21	CG	30 - 150 %
% DCBP (Confirmation)	63		%	2	07/07/21	CG	30 - 150 %
% TCMX	65		%	2	07/07/21	CG	30 - 150 %
% TCMX (Confirmation)	65		%	2	07/07/21	CG	30 - 150 %
Delymusian Arametic II	<b>C</b>						
Polynuclear Aromatic H							014/00=0
2-Methylnaphthalene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Benz(a)anthracene	380	280	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(a)pyrene	360	280	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(b)fluoranthene	310	280	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(k)fluoranthene	300	280	ug/Kg	1	07/03/21	WB	SW8270D
Chrysene	390	280	ug/Kg	1	07/03/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Fluoranthene	1000	280	ug/Kg	1	07/03/21	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Phenanthrene	800	280	ug/Kg	1	07/03/21	WB	SW8270D

Project ID: MILL HILL ELEM SCHOOL Phoenix I.D.: CI67321

Client ID: MHS 425 (3')

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	990	280	ug/Kg	1	07/03/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	77		%	1	07/03/21	WB	30 - 130 %
% Nitrobenzene-d5	82		%	1	07/03/21	WB	30 - 130 %
% Terphenyl-d14	93		%	1	07/03/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

#### **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

July 19, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

## **Analysis Report**

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/02/219:40Location Code:TIGHE-DASReceived by:B07/02/2114:49

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL Laboratory Data

SDG ID: GCI67319

Phoenix ID: CI67322

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 426 (18`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	6.86	0.87	mg/Kg	1	07/11/21	CPP	SW6010D
Lead	26.5	0.43	mg/Kg	1	07/11/21	CPP	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	07/14/21	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	07/14/21	CPP	SW6010D
SPLP Metals Digestion	Completed				07/14/21	AB/AB	SW3010A
Percent Solid	81		%		07/02/21	KL	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/02/21	L/E	SW3545A
Extraction of ETPH	Completed				07/02/21	I/E	SW3546
Soil Extraction for SVOA PAH	Completed				07/02/21	R/Z	SW3546
Extraction for PCB	Completed				07/02/21	S/KL	SW3540C
SPLP Extraction for Metals	Completed				07/13/21	AB	SW1312
SPLP Extraction for Organics	Completed				07/13/21	AB	SW1312
SPLP Pesticides Ext.	Completed				07/15/21	A/CC	SW3510C
Total Metals Digest	Completed				07/02/21	M/AG/BI	F SW3050B
TPH by GC (Extractable	Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	310	mg/Kg	5	07/07/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	07/07/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	83		%	5	07/07/21	JRB	50 - 150 %
% Terphenyl (surr)	85		%	5	07/07/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u> </u>						
PCB-1016	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1221	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1232	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1242	ND	200	ug/Kg	5	07/06/21	SC	SW8082A

Client ID: MHS 426 (18`)

Parameter	Parameter	Result	RL/ PQL	Lloito	Dilution	Data/Tima	D.,	Deference
PCB-1254								
PCB-1260								
PCB-1262   ND   200   ug/kg   5   07/08/21   SC   SW8082A   PCB-1268   ND   200   ug/kg   5   07/08/21   SC   SW8082A   PCB-1268   ND   200   ug/kg   5   07/08/21   SC   SW8082A   PCB-1268   ND   200   ND   ND   ND   ND   ND   ND   ND								
Color   Colo								
Section								
% DCBP (Confirmation)         73         % 6         5         07/08/21         SC 30 - 150 %           % DCBP (Confirmation)         71         % 6         5         07/08/21         SC 30 - 150 %           % TCMX (Confirmation)         64         % 5         07/08/21         SC 30 - 150 %           % TCMX (Confirmation)         64         % 5         07/08/21         SC 30 - 150 %           Pesticides           4,4'-DDD         ND         1.6         ug/Kg         2         07/08/21         CG         SW8081B           4,4'-DDT         7.8         1.6         ug/Kg         2         07/08/21         CG         SW8081B           Alachlor         ND         1.6         ug/Kg         2         07/08/21 </td <td></td> <td>ND</td> <td>200</td> <td>ug/Kg</td> <td>5</td> <td>07/06/21</td> <td>SC</td> <td>5W8U8ZA</td>		ND	200	ug/Kg	5	07/06/21	SC	5W8U8ZA
% DCBP (Confirmation)         71         %         5         07/06/21         SC         30 - 150 %           % TCMX         64         %         5         07/06/21         SC         30 - 150 %           % TCMX (Confirmation)         64         %         5         07/06/21         SC         30 - 150 %           Pesticides           4,4'-DDE         4,9         1.6         ug/Kg         2         07/06/21         CG         SW8081B           4,4'-DDT         7.8         1.6         ug/Kg         2         07/06/21         CG         SW8081B           a-BHC         ND         1.6         ug/Kg         2         07/06/21         CG         SW8081B           Alachlor         ND         8.2         ug/Kg         2         07/06/21         CG         SW8081B           Aldrin         ND         1.6         ug/Kg         2         07/06/21         CG         SW8081B           Aldrin         ND         1.6         ug/Kg         2         07/06/21         CG         SW8081B           Chlordane         ND         1.6         ug/Kg         2         07/06/21         CG         SW8081B           Chlordane		72		0/	Б	07/06/21	SC	30 150 %
% TCMX         64         % S         07/08/21         SC         30 - 150 %           % TCMX (Confirmation)         64         % S         07/08/21         SC         30 - 150 %           Pesticides         V         V         C         V         V         V         V         V         V         A         A         C         SW8081B         V         A         C         C         SW8081B         A         4,4°-DDT         7.8         1.6         ug/Kg         2         07/08/21         CG         SW8081B         A         4,4°-DDT         7.8         1.6         ug/Kg         2         07/08/21         CG         SW8081B         A         4,4°-DDT         7.8         1.6         ug/Kg         2         07/08/21         CG         SW8081B         A								
Pesticides								
Pesticides								
4,4'-DDD         ND         1.6         ug/Kg         2         07/06/21         CG         SW8081B           4,4'-DDE         4.9         1.6         ug/Kg         2         07/06/21         CG         SW8081B           4,4'-DDT         7.8         1.6         ug/Kg         2         07/06/21         CG         SW8081B           a-BHC         ND         1.6         ug/Kg         2         07/06/21         CG         SW8081B           Alachlor         ND         1.6         ug/Kg         2         07/06/21         CG         SW8081B           Aldrin         ND         1.6         ug/Kg         2         07/06/21         CG         SW8081B           b-BHC         ND         1.6         ug/Kg         2         07/06/21         CG         SW8081B           Chlordane         ND         1.6         ug/Kg         2         07/06/21         CG         SW8081B           Dieldrin         ND         1.6         ug/Kg         2         07/06/21         CG         SW8081B           Endosulfan I         ND         8.2         ug/Kg         2         07/06/21         CG         SW8081B           Endosulfan Sulfate <t< td=""><td>% TCMX (Committation)</td><td>04</td><td></td><td>70</td><td>3</td><td>07/00/21</td><td>30</td><td>30 - 130 /6</td></t<>	% TCMX (Committation)	04		70	3	07/00/21	30	30 - 130 /6
4,4°-DDE         4,9°-DDT         7.8         1.6         ug/Kg         2         07/06/21         CG         SW8081B           4,4°-DDT         7.8         1.6         ug/Kg         2         07/06/21         CG         SW8081B           a-BHC         ND         1.6         ug/Kg         2         07/06/21         CG         SW8081B           Alachlor         ND         1.6         ug/Kg         2         07/06/21         CG         SW8081B           Aldrin         ND         1.6         ug/Kg         2         07/06/21         CG         SW8081B           Chlordane         ND         1.6         ug/Kg         2         07/06/21         CG         SW8081B           Chlordane         ND         4.1         ug/Kg         2         07/06/21         CG         SW8081B           Chlordane         ND         4.1         ug/Kg         2         07/06/21         CG         SW8081B           Chlordane         ND         1.6         ug/Kg         2         07/06/21         CG         SW8081B           Chlordane         ND         4.1         ug/Kg         2         07/06/21         CG         SW8081B           Endds	<u>Pesticides</u>							
4,4'-DDT         7.8         1.6         ug/kg         2         07/06/21         CG         SW8081B           a-BHC         ND         1.6         ug/kg         2         07/06/21         CG         SW8081B           Alachlor         ND         8.2         ug/kg         2         07/06/21         CG         SW8081B           Aldrin         ND         1.6         ug/kg         2         07/06/21         CG         SW8081B           B-BHC         ND         1.6         ug/kg         2         07/06/21         CG         SW8081B           Chlordane         ND         4.1         ug/kg         2         07/06/21         CG         SW8081B           Enddrin         ND         8.2         ug/kg         2         07/06/21         CG         SW8081B           Enddrin         ND	4,4' -DDD	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
B-BHC	4,4' -DDE	4.9	1.6	ug/Kg	2	07/06/21	CG	SW8081B
Alachlor	4,4' -DDT	7.8	1.6	ug/Kg	2	07/06/21	CG	SW8081B
Aldrin	a-BHC	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
b-BHC   ND   1.6   ug/kg   2   07/06/21   CG   SW8081B   Chlordane   ND   41   ug/kg   2   07/06/21   CG   SW8081B   Chlordane   ND   41   ug/kg   2   07/06/21   CG   SW8081B   Chlordane   ND   1.6   ug/kg   2   07/06/21   CG   SW8081B   Chlordane   ND   1.6   ug/kg   2   07/06/21   CG   SW8081B   Chlordane   ND   4.1   ug/kg   2   07/06/21   CG   SW8081B   Chlordane   ND   8.2   ug/kg   2   07/06/21   CG   SW8081B   Chlordane   ND   0.005   ug/kg   1   07/16/21   CG   SW8081B   Chlordane   ND   0.005   ug/kg   1   07/16/21   CG   SW8081B   Chlordane   ND	Alachlor	ND	8.2	ug/Kg	2	07/06/21	CG	SW8081B
Chlordane	Aldrin	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
d-BHC         ND         1.6         ug/Kg         2         07/06/21         CG         SW8081B           Dieldrin         ND         4.1         ug/Kg         2         07/06/21         CG         SW8081B           Endosulfan II         ND         8.2         ug/Kg         2         07/06/21         CG         SW8081B           Endosulfan III         ND         8.2         ug/Kg         2         07/06/21         CG         SW8081B           Endosulfan sulfate         ND         8.2         ug/Kg         2         07/06/21         CG         SW8081B           Endrin         ND         8.2         ug/Kg         2         07/06/21         CG         SW8081B           Endrin aldehyde         ND         8.2         ug/Kg         2         07/06/21         CG         SW8081B           Endrin ketone         ND         8.2         ug/Kg         2         07/06/21         CG         SW8081B           Endrin ketone         ND         8.2         ug/Kg         2         07/06/21         CG         SW8081B           Heptachlor         ND         8.2         ug/Kg         2         07/06/21         CG         SW8081B <t< td=""><td>b-BHC</td><td>ND</td><td>1.6</td><td>ug/Kg</td><td>2</td><td>07/06/21</td><td>CG</td><td>SW8081B</td></t<>	b-BHC	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
Dieldrin	Chlordane	ND	41	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan   ND   8.2   ug/Kg   2   07/06/21   CG   SW8081B	d-BHC	ND	1.6		2	07/06/21	CG	SW8081B
Endosulfan II	Dieldrin	ND	4.1	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan sulfate	Endosulfan I	ND	8.2	ug/Kg	2	07/06/21	CG	SW8081B
Endrin   ND   8.2   ug/Kg   2   07/06/21   CG   SW8081B	Endosulfan II	ND	8.2	ug/Kg	2	07/06/21	CG	SW8081B
Endrin aldehyde	Endosulfan sulfate	ND	8.2	ug/Kg	2	07/06/21	CG	SW8081B
Endrin ketone	Endrin	ND	8.2		2	07/06/21	CG	SW8081B
g-BHC         ND         1.6         ug/Kg         2         07/06/21         CG         SW8081B           Heptachlor         ND         8.2         ug/Kg         2         07/06/21         CG         SW8081B           Heptachlor epoxide         ND         8.2         ug/Kg         2         07/06/21         CG         SW8081B           Methoxychlor         ND         41         ug/Kg         2         07/06/21         CG         SW8081B           Toxaphene         ND         160         ug/Kg         2         07/06/21         CG         SW8081B           QA/QC Surrogates           %         DCBP         71         %         2         07/06/21         CG         30 - 150 %           % DCBP (Confirmation)         74         %         2         07/06/21         CG         30 - 150 %           % TCMX         66         %         2         07/06/21         CG         30 - 150 %           % TCMX (Confirmation)         69         %         2         07/06/21         CG         30 - 150 %           % TCMX (Confirmation)         69         w         2         07/06/21         CG         30 - 150 %           % TCMX (Confi	Endrin aldehyde	ND	8.2		2	07/06/21	CG	SW8081B
Heptachlor         ND         8.2         ug/Kg         2         07/06/21         CG         SW8081B           Heptachlor epoxide         ND         8.2         ug/Kg         2         07/06/21         CG         SW8081B           Methoxychlor         ND         41         ug/Kg         2         07/06/21         CG         SW8081B           Toxaphene         ND         160         ug/Kg         2         07/06/21         CG         SW8081B           QA/QC Surrogates         SW8081B         SW8081B         SW8081B         SW8081B         SW8081B           OCA/QC Surrogates         SW8081B         SW8081B         SW8081B         SW8081B         SW8081B           OCA/QC Surrogates         SW8081B         SW8081B         SW8081B         SW8081B         SW8081B         SW8081B           OA/QC Surrogates         SW8081B	Endrin ketone	ND	8.2		2	07/06/21	CG	
Heptachlor epoxide	g-BHC				2		CG	
Methoxychlor         ND         41         ug/Kg         2         07/06/21         CG         SW8081B           Toxaphene         ND         160         ug/Kg         2         07/06/21         CG         SW8081B           QA/QC Surrogates           % DCBP         71         %         2         07/06/21         CG         30 - 150 %           % DCBP (Confirmation)         74         %         2         07/06/21         CG         30 - 150 %           % TCMX         66         %         2         07/06/21         CG         30 - 150 %           % TCMX (Confirmation)         69         %         2         07/06/21         CG         30 - 150 %           SPLP Pesticides           4,4' - DDD         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           4,4' - DDD         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           4,4' - DDT         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           a-BHC         ND         0.005         ug/L         1         07/16/21         CG         SW8	-				2			
Toxaphene         ND         160         ug/Kg         2         07/06/21         CG         SW8081B           QA/QC Surrogates         W         2         07/06/21         CG         30 - 150 %           % DCBP (Confirmation)         74         %         2         07/06/21         CG         30 - 150 %           % TCMX         66         %         2         07/06/21         CG         30 - 150 %           % TCMX (Confirmation)         69         %         2         07/06/21         CG         30 - 150 %           SPLP Pesticides         %         2         07/06/21         CG         30 - 150 %           SPLP Pesticides         S         Ug/L         1         07/16/21         CG         30 - 150 %           4,4' - DDD         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           4,4' - DDT         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           a-BHC         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           Aldrin         ND         0.003         ug/L         1         07/16/21         CG <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
QA/QC Surrogates           % DCBP         71         %         2         07/06/21         CG         30 - 150 %           % DCBP (Confirmation)         74         %         2         07/06/21         CG         30 - 150 %           % TCMX         66         %         2         07/06/21         CG         30 - 150 %           % TCMX (Confirmation)         69         %         2         07/06/21         CG         30 - 150 %           SPLP Pesticides           4,4' -DDD         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           4,4' -DDE         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           4,4' -DDT         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           a-BHC         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           Aldrin         ND         0.003         ug/L         1         07/16/21         CG         SW8081B           Chlordane         ND         0.050         ug/L         1         07/16/21         CG         SW8081B </td <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	•							
% DCBP         71         %         2         07/06/21         CG         30 - 150 %           % DCBP (Confirmation)         74         %         2         07/06/21         CG         30 - 150 %           % TCMX         66         %         2         07/06/21         CG         30 - 150 %           % TCMX (Confirmation)         69         %         2         07/06/21         CG         30 - 150 %           SPLP Pesticides           4,4' -DDD         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           4,4' -DDD         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           4,4' -DDT         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           a-BHC         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           Aldrin         ND         0.003         ug/L         1         07/16/21         CG         SW8081B           Chlordane         ND         0.005         ug/L         1         07/16/21         CG         SW8081B		ND	160	ug/Kg	2	07/06/21	CG	SW8081B
% DCBP (Confirmation)         74         %         2         07/06/21         CG         30 - 150 %           % TCMX         66         %         2         07/06/21         CG         30 - 150 %           % TCMX (Confirmation)         69         %         2         07/06/21         CG         30 - 150 %           SPLP Pesticides           4,4' -DDD         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           4,4' -DDE         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           4,4' -DDT         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           a-BHC         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           Aldrin         ND         0.003         ug/L         1         07/16/21         CG         SW8081B           b-BHC         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           Chlordane         ND         0.050         ug/L         1         07/16/21         CG         SW8081B								
% TCMX       66       %       2       07/06/21       CG       30 - 150 %         % TCMX (Confirmation)       69       %       2       07/06/21       CG       30 - 150 %         SPLP Pesticides         4,4' -DDD       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         4,4' -DDE       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         4,4' -DDT       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         a-BHC       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         Alachlor       ND       0.003       ug/L       1       07/16/21       CG       SW8081B         b-BHC       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         Chlordane       ND       0.050       ug/L       1       07/16/21       CG       SW8081B								
SPLP Pesticides         %         2         07/06/21         CG         30 - 150 %           4,4' -DDD         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           4,4' -DDE         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           4,4' -DDT         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           a-BHC         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           Alachlor         ND         0.010         ug/L         1         07/16/21         CG         SW8081B           Aldrin         ND         0.003         ug/L         1         07/16/21         CG         SW8081B           b-BHC         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           Chlordane         ND         0.050         ug/L         1         07/16/21         CG         SW8081B								
SPLP Pesticides           4,4'-DDD         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           4,4'-DDE         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           4,4'-DDT         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           a-BHC         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           Alachlor         ND         0.010         ug/L         1         07/16/21         CG         SW8081B           Aldrin         ND         0.003         ug/L         1         07/16/21         CG         SW8081B           b-BHC         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           Chlordane         ND         0.050         ug/L         1         07/16/21         CG         SW8081B								
4,4'-DDD       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         4,4'-DDE       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         4,4'-DDT       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         a-BHC       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         Alachlor       ND       0.010       ug/L       1       07/16/21       CG       SW8081B         Aldrin       ND       0.003       ug/L       1       07/16/21       CG       SW8081B         b-BHC       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         Chlordane       ND       0.050       ug/L       1       07/16/21       CG       SW8081B	% TCMX (Confirmation)	69		%	2	07/06/21	CG	30 - 150 %
4,4'-DDD       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         4,4'-DDE       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         4,4'-DDT       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         a-BHC       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         Alachlor       ND       0.010       ug/L       1       07/16/21       CG       SW8081B         Aldrin       ND       0.003       ug/L       1       07/16/21       CG       SW8081B         b-BHC       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         Chlordane       ND       0.050       ug/L       1       07/16/21       CG       SW8081B	SPLP Pesticides							
4,4' -DDE       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         4,4' -DDT       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         a-BHC       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         Alachlor       ND       0.010       ug/L       1       07/16/21       CG       SW8081B         Aldrin       ND       0.003       ug/L       1       07/16/21       CG       SW8081B         b-BHC       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         Chlordane       ND       0.050       ug/L       1       07/16/21       CG       SW8081B	·	ND	0.005	ug/L	1	07/16/21	CG	SW8081B
4,4' -DDT       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         a-BHC       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         Alachlor       ND       0.010       ug/L       1       07/16/21       CG       SW8081B         Aldrin       ND       0.003       ug/L       1       07/16/21       CG       SW8081B         b-BHC       ND       0.005       ug/L       1       07/16/21       CG       SW8081B         Chlordane       ND       0.050       ug/L       1       07/16/21       CG       SW8081B	·			_	1		CG	
a-BHC         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           Alachlor         ND         0.010         ug/L         1         07/16/21         CG         SW8081B           Aldrin         ND         0.003         ug/L         1         07/16/21         CG         SW8081B           b-BHC         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           Chlordane         ND         0.050         ug/L         1         07/16/21         CG         SW8081B				=	1			
Alachlor         ND         0.010         ug/L         1         07/16/21         CG         SW8081B           Aldrin         ND         0.003         ug/L         1         07/16/21         CG         SW8081B           b-BHC         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           Chlordane         ND         0.050         ug/L         1         07/16/21         CG         SW8081B					1			
Aldrin         ND         0.003         ug/L         1         07/16/21         CG         SW8081B           b-BHC         ND         0.005         ug/L         1         07/16/21         CG         SW8081B           Chlordane         ND         0.050         ug/L         1         07/16/21         CG         SW8081B								
b-BHC ND 0.005 ug/L 1 07/16/21 CG SW8081B Chlordane ND 0.050 ug/L 1 07/16/21 CG SW8081B				=	1	07/16/21	CG	
Chlordane ND 0.050 ug/L 1 07/16/21 CG SW8081B				=				
•								
₹				_				
Dieldrin ND 0.002 ug/L 1 07/16/21 CG SW8081B				=	1		CG	SW8081B

Client ID: MHS 426 (18`)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Endosulfan I	ND	0.005	ug/L	1	07/16/21	CG	SW8081B
Endosulfan II	ND	0.005	ug/L	1	07/16/21	CG	SW8081B
Endosulfan sulfate	ND	0.005	ug/L	1	07/16/21	CG	SW8081B
Endrin	ND	0.005	ug/L	1	07/16/21	CG	SW8081B
Endrin aldehyde	ND	0.005	ug/L	1	07/16/21	CG	SW8081B
Endrin Ketone	ND	0.005	ug/L	1	07/16/21	CG	SW8081B
g-BHC	ND	0.005	ug/L	1	07/16/21	CG	SW8081B
Heptachlor	ND	0.005	ug/L	1	07/16/21	CG	SW8081B
Heptachlor epoxide	ND	0.005	ug/L	1	07/16/21	CG	SW8081B
Methoxychlor	ND	0.005	ug/L	1	07/16/21	CG	SW8081B
Toxaphene	ND	0.20	ug/L	1	07/16/21	CG	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	64		%	1	07/16/21	CG	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	30		%	1	07/16/21	CG	30 - 150 %
%TCMX (Surrogate Rec)	88		%	1	07/16/21	CG	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	79		%	1	07/16/21	CG	30 - 150 %
Polynuclear Aromatic H	<u>C</u>						
2-Methylnaphthalene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Benz(a)anthracene	480	280	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(a)pyrene	570	280	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(b)fluoranthene	540	280	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(ghi)perylene	370	280	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(k)fluoranthene	530	280	ug/Kg	1	07/03/21	WB	SW8270D
Chrysene	550	280	ug/Kg	1	07/03/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Fluoranthene	950	280	ug/Kg	1	07/03/21	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	420	280	ug/Kg	1	07/03/21	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	07/03/21	WB	SW8270D
Phenanthrene	380	280	ug/Kg	1	07/03/21	WB	SW8270D
Pyrene	960	280	ug/Kg	1	07/03/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	70		%	1	07/03/21	WB	30 - 130 %
% Nitrobenzene-d5	75		%	1	07/03/21	WB	30 - 130 %
% Terphenyl-d14	85		%	1	07/03/21	WB	30 - 130 %

Client ID: MHS 426 (18`)

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/02/219:44Location Code:TIGHE-DASReceived by:B07/02/2114:49

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>Laboratory Data</u> SDG ID: GCI67319

Phoenix ID: CI67323

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 427 (3`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	3.34	0.72	mg/Kg	1	07/11/21	CPP	SW6010D
Lead	9.87	0.36	mg/Kg	1	07/11/21	CPP	SW6010D
Percent Solid	83		%		07/02/21	KL	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/02/21	L/E	SW3545A
Extraction of ETPH	Completed				07/02/21	I/E	SW3546
Soil Extraction for SVOA PAH	Completed				07/02/21	R/Z	SW3546
Extraction for PCB	Completed				07/02/21	S/KL	SW3540C
Total Metals Digest	Completed				07/02/21	M/AG/B	F SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	07/04/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/04/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	85		%	1	07/04/21	JRB	50 - 150 %
% Terphenyl (surr)	76		%	1	07/04/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	200	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1221	ND	200	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1232	ND	200	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1242	ND	200	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1248	ND	200	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1254	ND	200	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1260	ND	200	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1262	ND	200	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1268	ND	200	ug/Kg	5	07/07/21	SC	SW8082A
QA/QC Surrogates							

Client ID: MHS 427 (3`)

, ,		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% DCBP	59		%	5	07/07/21	SC	30 - 150 %
% DCBP (Confirmation)	68		%	5	07/07/21	SC	30 - 150 %
% TCMX	57		%	5	07/07/21	SC	30 - 150 %
% TCMX (Confirmation)	71		%	5	07/07/21	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
a-BHC	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
Alachlor	ND	7.9	ug/Kg	2	07/06/21	CG	SW8081B
Aldrin	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
b-BHC	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
Chlordane	ND	40	ug/Kg	2	07/06/21	CG	SW8081B
d-BHC	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan I	ND	7.9	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan II	ND	7.9	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan sulfate	ND	7.9	ug/Kg	2	07/06/21	CG	SW8081B
Endrin	ND	7.9	ug/Kg	2	07/06/21	CG	SW8081B
Endrin aldehyde	ND	7.9	ug/Kg	2	07/06/21	CG	SW8081B
Endrin ketone	ND	7.9	ug/Kg	2	07/06/21	CG	SW8081B
g-BHC	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor	ND	7.9	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor epoxide	ND	7.9	ug/Kg	2	07/06/21	CG	SW8081B
Methoxychlor	ND	40	ug/Kg	2	07/06/21	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	07/06/21	CG	SW8081B
QA/QC Surrogates			29.19	_			
% DCBP	64		%	2	07/06/21	CG	30 - 150 %
% DCBP (Confirmation)	72		%	2	07/06/21	CG	30 - 150 %
% TCMX	60		%	2	07/06/21	CG	30 - 150 %
% TCMX (Confirmation)	68		%	2	07/06/21	CG	30 - 150 %
Dalunualaar Aramatia U	C						
Polynuclear Aromatic H		070	0.0		07/00/04	\A/D	014/00705
2-Methylnaphthalene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Fluoranthene	270	270	ug/Kg	1	07/03/21	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
Phenanthrene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D

Client ID: MHS 427 (3`)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	ND	270	ug/Kg	1	07/03/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	76		%	1	07/03/21	WB	30 - 130 %
% Nitrobenzene-d5	82		%	1	07/03/21	WB	30 - 130 %
% Terphenyl-d14	93		%	1	07/03/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/02/219:45Location Code:TIGHE-DASReceived by:B07/02/2114:49

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>Laboratory Data</u> SDG ID: GCI67319

Phoenix ID: CI67324

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 427D (3`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	4.46	0.79	mg/Kg	1	07/11/21	CPP	SW6010D
Lead	14.6	0.40	mg/Kg	1	07/11/21	CPP	SW6010D
Percent Solid	81		%		07/02/21	KL	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/02/21	L/E	SW3545A
Extraction of ETPH	Completed				07/02/21	I/E	SW3546
Soil Extraction for SVOA PAH	Completed				07/02/21	R/K	SW3546
Extraction for PCB	Completed				07/02/21	S/KL	SW3540C
Total Metals Digest	Completed				07/02/21	M/AG/B	F SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	07/04/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/04/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	65		%	1	07/04/21	JRB	50 - 150 %
% Terphenyl (surr)	65		%	1	07/04/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1221	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1232	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1242	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1248	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1254	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1260	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1262	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1268	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
QA/QC Surrogates							

Client ID: MHS 427D (3`)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% DCBP	63		%	5	07/06/21	SC	30 - 150 %
% DCBP (Confirmation)	66		%	5	07/06/21	SC	30 - 150 %
% TCMX	50		%	5	07/06/21	SC	30 - 150 %
% TCMX (Confirmation)	54		%	5	07/06/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
a-BHC	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
Alachlor	ND	8.1	ug/Kg	2	07/06/21	CG	SW8081B
Aldrin	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
b-BHC	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
Chlordane	ND	41	ug/Kg	2	07/06/21	CG	SW8081B
d-BHC	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan I	ND	8.1	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan II	ND	8.1	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan sulfate	ND	8.1	ug/Kg	2	07/06/21	CG	SW8081B
Endrin	ND	8.1	ug/Kg	2	07/06/21	CG	SW8081B
Endrin aldehyde	ND	8.1	ug/Kg	2	07/06/21	CG	SW8081B
Endrin ketone	ND	8.1	ug/Kg	2	07/06/21	CG	SW8081B
g-BHC	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor	ND	8.1	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor epoxide	ND	8.1	ug/Kg	2	07/06/21	CG	SW8081B
Methoxychlor	ND	41	ug/Kg	2	07/06/21	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	07/06/21	CG	SW8081B
QA/QC Surrogates		.00	~g/. \g	_	01,00,2		0.1.000.2
% DCBP	48		%	2	07/06/21	CG	30 - 150 %
% DCBP (Confirmation)	41		%	2	07/06/21	CG	30 - 150 %
% TCMX	42		%	2	07/06/21	CG	30 - 150 %
% TCMX (Confirmation)	41		%	2	07/06/21	CG	30 - 150 %
Polynuclear Arematic H	ıc						
Polynuclear Aromatic H		222	0.0		07/00/04	\4/D	014/0070
2-Methylnaphthalene	ND	280	ug/Kg	1	07/06/21	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	07/06/21	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	07/06/21	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	07/06/21	WB	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	07/06/21	WB	SW8270D
Benzo(a)pyrene	310	280	ug/Kg	1	07/06/21	WB	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	07/06/21	WB	SW8270D
Benzo(ghi)perylene	390	280	ug/Kg	1	07/06/21	WB	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	07/06/21	WB	SW8270D
Chrysene	ND	280	ug/Kg	1	07/06/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	07/06/21	WB	SW8270D
Fluoranthene	470	280	ug/Kg	1	07/06/21	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	07/06/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	330	280	ug/Kg	1	07/06/21	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	07/06/21	WB	SW8270D
Phenanthrene	ND	280	ug/Kg	1	07/06/21	WB	SW8270D

Client ID: MHS 427D (3`)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	450	280	ug/Kg	1	07/06/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	80		%	1	07/06/21	WB	30 - 130 %
% Nitrobenzene-d5	80		%	1	07/06/21	WB	30 - 130 %
% Terphenyl-d14	90		%	1	07/06/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/02/219:50Location Code:TIGHE-DASReceived by:B07/02/2114:49

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

MILL HILL ELEM SCHOOL

-aboratory Data SDG ID: GCI67319

Phoenix ID: CI67325

\_\_\_\_\_

Client ID: MHS 428 (0.5`)

Project ID:

RL/ Parameter Result **PQL** Units Dilution Date/Time Βv Reference Arsenic 3.87 0.94 mg/Kg 1 07/11/21 CPP SW6010D 15.4 0.47 mg/Kg 1 07/11/21 CPP SW6010D Lead SW846-%Solid Percent Solid 63 % 07/02/21 07/02/21 SW3545A Soil Extraction for Pesticide Completed L/E Completed 07/02/21 SW3546 Extraction of ETPH 07/02/21 Soil Extraction for SVOA PAH Completed R/K SW3546 Completed 07/02/21 S/KL SW3540C Extraction for PCB **Total Metals Digest** Completed 07/02/21 M/AG/BF SW3050B TPH by GC (Extractable Products) CTETPH 8015D ND 120 1 07/04/21 JRB Ext. Petroleum H.C. (C9-C36) mg/Kg ND mg/Kg 1 07/04/21 JRB CTETPH 8015D Identification **QA/QC Surrogates** % COD (surr) 55 % 1 07/04/21 JRB 50 - 150 % 62 07/04/21 50 - 150 % % Terphenyl (surr) % 1 JRB PCB (Soxhlet SW3540C) ND 260 5 07/07/21 SC SW8082A PCB-1016 ug/Kg ND 5 260 07/07/21 SC SW8082A ug/Kg PCB-1221 ND 260 ug/Kg 5 07/07/21 SC SW8082A PCB-1232 ND 260 ug/Kg 5 07/07/21 SC SW8082A PCB-1242 ND 260 5 07/07/21 SC SW8082A PCB-1248 ug/Kg ND 260 5 07/07/21 SC SW8082A PCB-1254 ug/Kg PCB-1260 ND 260 ug/Kg 5 07/07/21 SC SW8082A ND 5 SC PCB-1262 260 ug/Kg 07/07/21 SW8082A ND 5 07/07/21 SC SW8082A PCB-1268 260 ug/Kg **QA/QC Surrogates** 

Client ID: MHS 428 (0.5`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	D./	Reference
		rul				Ву	
% DCBP	71		%	5	07/07/21	SC	30 - 150 %
% DCBP (Confirmation)	66		%	5	07/07/21	SC	30 - 150 %
% TCMX	65		%	5	07/07/21	SC	30 - 150 %
% TCMX (Confirmation)	65		%	5	07/07/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	2.1	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDE	ND	2.1	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDT	ND	2.1	ug/Kg	2	07/06/21	CG	SW8081B
a-BHC	ND	2	ug/Kg	2	07/06/21	CG	SW8081B
Alachlor	ND	10	ug/Kg	2	07/06/21	CG	SW8081B
Aldrin	ND	2	ug/Kg	2	07/06/21	CG	SW8081B
b-BHC	ND	2	ug/Kg	2	07/06/21	CG	SW8081B
Chlordane	ND	52	ug/Kg	2	07/06/21	CG	SW8081B
d-BHC	ND	2	ug/Kg	2	07/06/21	CG	SW8081B
Dieldrin	ND	5.2	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan I	ND	10	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan II	ND	10	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan sulfate	ND	10	ug/Kg	2	07/06/21	CG	SW8081B
Endrin	ND	10	ug/Kg	2	07/06/21	CG	SW8081B
Endrin aldehyde	ND	10	ug/Kg	2	07/06/21	CG	SW8081B
Endrin ketone	ND	10	ug/Kg	2	07/06/21	CG	SW8081B
g-BHC	ND	2.1	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor	ND	10	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor epoxide	ND	10	ug/Kg	2	07/06/21	CG	SW8081B
Methoxychlor	ND	52	ug/Kg	2	07/06/21	CG	SW8081B
Toxaphene	ND	210	ug/Kg	2	07/06/21	CG	SW8081B
QA/QC Surrogates			-9.1.9				
% DCBP	45		%	2	07/06/21	CG	30 - 150 %
% DCBP (Confirmation)	42		%	2	07/06/21	CG	30 - 150 %
% TCMX	44		%	2	07/06/21	CG	30 - 150 %
% TCMX (Confirmation)	43		%	2	07/06/21	CG	30 - 150 %
Debraceleer Aremetic II	<b>C</b>						
Polynuclear Aromatic H			" -				014/00=05
2-Methylnaphthalene	ND	360	ug/Kg	1	07/06/21	WB	SW8270D
Acenaphthene	ND	360	ug/Kg	1	07/06/21	WB	SW8270D
Acenaphthylene	ND	360	ug/Kg	1	07/06/21	WB	SW8270D
Anthracene	ND	360	ug/Kg	1	07/06/21	WB	SW8270D
Benz(a)anthracene	ND	360	ug/Kg	1	07/06/21	WB	SW8270D
Benzo(a)pyrene	ND	360	ug/Kg	1	07/06/21	WB	SW8270D
Benzo(b)fluoranthene	ND	360	ug/Kg	1	07/06/21	WB	SW8270D
Benzo(ghi)perylene	ND	360	ug/Kg	1	07/06/21	WB	SW8270D
Benzo(k)fluoranthene	ND	360	ug/Kg	1	07/06/21	WB	SW8270D
Chrysene	ND	360	ug/Kg	1	07/06/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	360	ug/Kg	1	07/06/21	WB	SW8270D
Fluoranthene	ND	360	ug/Kg	1	07/06/21	WB	SW8270D
Fluorene	ND	360	ug/Kg	1	07/06/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	360	ug/Kg	1	07/06/21	WB	SW8270D
Naphthalene	ND	360	ug/Kg	1	07/06/21	WB	SW8270D
Phenanthrene	ND	360	ug/Kg	1	07/06/21	WB	SW8270D

Client ID: MHS 428 (0.5`)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	ND	360	ug/Kg	1	07/06/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	61		%	1	07/06/21	WB	30 - 130 %
% Nitrobenzene-d5	79		%	1	07/06/21	WB	30 - 130 %
% Terphenyl-d14	77		%	1	07/06/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

**Sample Information Custody Information Date** <u>Time</u> Collected by: 07/02/21 10:00 Matrix: SOIL Received by: Location Code: **TIGHE-DAS** В 07/02/21 14:49

Rush Request: Standard Analyzed by: see "By" below

150439 MILL HILL P.O.#:

SDG ID: GCI67319

\_aboratory Data Phoenix ID: Cl67326

MILL HILL ELEM SCHOOL Project ID:

Client ID: MHS 429 (1`)

Davamatar	Daguilt	RL/	l laita	Dilution	Data/Tima	D	Deference
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	3.06	0.73	mg/Kg	1	07/11/21	CPP	SW6010D
Lead	11.3	0.37	mg/Kg	1	07/11/21	CPP	SW6010D
Percent Solid	83		%		07/02/21	KL	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/02/21	L/E	SW3545A
Extraction of ETPH	Completed				07/02/21	I/E	SW3546
Soil Extraction for SVOA PAH	Completed				07/02/21	R/K	SW3546
Extraction for PCB	Completed				07/02/21	S/KL	SW3540C
Total Metals Digest	Completed				07/02/21	M/AG/B	F SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	07/06/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/06/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	66		%	1	07/06/21	JRB	50 - 150 %
% Terphenyl (surr)	77		%	1	07/06/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1221	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1232	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1242	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1248	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1254	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1260	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1262	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1268	ND	200	ug/Kg	5	07/06/21	SC	SW8082A
QA/QC Surrogates							

Client ID: MHS 429 (1`)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% DCBP	91		%	5	07/06/21	SC	30 - 150 %
% DCBP (Confirmation)	93		%	5	07/06/21	SC	30 - 150 %
% TCMX	79		%	5	07/06/21	SC	30 - 150 %
% TCMX (Confirmation)	83		%	5	07/06/21	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
a-BHC	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
Alachlor	ND	7.8	ug/Kg	2	07/06/21	CG	SW8081B
Aldrin	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
b-BHC	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
Chlordane	ND	39	ug/Kg	2	07/06/21	CG	SW8081B
d-BHC	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	07/06/21	CG	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	07/06/21	CG	SW8081B
Endrin	ND	7.8	ug/Kg	2	07/06/21	CG	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	07/06/21	CG	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	07/06/21	CG	SW8081B
g-BHC	ND	1.6	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	07/06/21	CG	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	07/06/21	CG	SW8081B
Methoxychlor	ND	39	ug/Kg	2	07/06/21	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	07/06/21	CG	SW8081B
QA/QC Surrogates		.00	₩ <b>9</b> /119	_	0.700,2.		01100012
% DCBP	50		%	2	07/06/21	CG	30 - 150 %
% DCBP (Confirmation)	46		%	2	07/06/21	CG	30 - 150 %
% TCMX	46		%	2	07/06/21	CG	30 - 150 %
% TCMX (Confirmation)	45		%	2	07/06/21	CG	30 - 150 %
Delymusias Aremetic II	<u></u>						
Polynuclear Aromatic H							014/00=0
2-Methylnaphthalene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Fluoranthene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Phenanthrene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D

Client ID: MHS 429 (1`)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	70		%	1	07/05/21	WB	30 - 130 %
% Nitrobenzene-d5	69		%	1	07/05/21	WB	30 - 130 %
% Terphenyl-d14	83		%	1	07/05/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/02/2110:05Location Code:TIGHE-DASReceived by:B07/02/2114:49

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>aboratory Data</u> SDG ID: GCI67319

Phoenix ID: Cl67327

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 430 (0.5`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	5.33	0.79	mg/Kg	1	07/11/21	CPP	SW6010D
Lead	22.0	0.40	mg/Kg	1	07/11/21	CPP	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	07/14/21	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	07/14/21	CPP	SW6010D
SPLP Metals Digestion	Completed		J		07/14/21	AB/AB	SW3010A
Percent Solid	77		%		07/02/21	KL	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/08/21	L/K	SW3545A
Extraction of ETPH	Completed				07/02/21	I/E	SW3546
Soil Extraction for SVOA PAH	Completed				07/02/21	R/K	SW3546
Extraction for PCB	Completed				07/02/21	S/KL	SW3540C
SPLP Extraction for Metals	Completed				07/13/21	AB	SW1312
Total Metals Digest	Completed				07/02/21	M/AG/BF	SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	07/04/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/04/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	61		%	1	07/04/21	JRB	50 - 150 %
% Terphenyl (surr)	63		%	1	07/04/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	210	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1221	ND	210	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1232	ND	210	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1242	ND	210	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1248	ND	210	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1254	ND	210	ug/Kg	5	07/06/21	SC	SW8082A

Client ID: MHS 430 (0.5`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference	
PCB-1260	ND	210	ug/Kg	5	07/06/21	SC	SW8082A	
PCB-1262	ND	210	ug/Kg	5	07/06/21	SC	SW8082A	
PCB-1268	ND	210	ug/Kg	5	07/06/21	SC	SW8082A	
QA/QC Surrogates								
% DCBP	99		%	5	07/06/21	SC	30 - 150 %	
% DCBP (Confirmation)	100		%	5	07/06/21	SC	30 - 150 %	
% TCMX	82		%	5	07/06/21	SC	30 - 150 %	
% TCMX (Confirmation)	89		%	5	07/06/21	SC	30 - 150 %	
<u>Pesticides</u>								
4,4' -DDD	ND	1.7	ug/Kg	2	07/09/21	CG	SW8081B	
4,4' -DDE	ND	1.7	ug/Kg	2	07/09/21	CG	SW8081B	
4,4' -DDT	ND	1.7	ug/Kg	2	07/09/21	CG	SW8081B	
a-BHC	ND	1.7	ug/Kg	2	07/09/21	CG	SW8081B	
Alachlor	ND	8.6	ug/Kg	2	07/09/21	CG	SW8081B	
Aldrin	ND	1.7	ug/Kg	2	07/09/21	CG	SW8081B	
b-BHC	ND	1.7	ug/Kg	2	07/09/21	CG	SW8081B	
Chlordane	ND	43	ug/Kg	2	07/09/21	CG	SW8081B	
d-BHC	ND	1.7	ug/Kg	2	07/09/21	CG	SW8081B	
Dieldrin	ND	4.3	ug/Kg	2	07/09/21	CG	SW8081B	
Endosulfan I	ND	8.6	ug/Kg	2	07/09/21	CG	SW8081B	
Endosulfan II	ND	8.6	ug/Kg	2	07/09/21	CG	SW8081B	
Endosulfan sulfate	ND	8.6	ug/Kg	2	07/09/21	CG	SW8081B	
Endrin	ND	8.6	ug/Kg	2	07/09/21	CG	SW8081B	
Endrin aldehyde	ND	8.6	ug/Kg	2	07/09/21	CG	SW8081B	
Endrin ketone	ND	8.6	ug/Kg	2	07/09/21	CG	SW8081B	
g-BHC	ND	1.7	ug/Kg	2	07/09/21	CG	SW8081B	
Heptachlor	ND	8.6	ug/Kg	2	07/09/21	CG	SW8081B	
Heptachlor epoxide	ND	8.6	ug/Kg	2	07/09/21	CG	SW8081B	
Methoxychlor	ND	43	ug/Kg	2	07/09/21	CG	SW8081B	
Toxaphene	ND	170	ug/Kg	2	07/09/21	CG	SW8081B	
QA/QC Surrogates								
% DCBP	28		%	2	07/09/21	CG	30 - 150 %	3
% DCBP (Confirmation)	29		%	2	07/09/21	CG	30 - 150 %	3
% TCMX	26		%	2	07/09/21	CG	30 - 150 %	3
% TCMX (Confirmation)	28		%	2	07/09/21	CG	30 - 150 %	3
Polynuclear Aromatic H	<u>IC</u>							
2-Methylnaphthalene	 ND	300	ug/Kg	1	07/05/21	WB	SW8270D	
Acenaphthene	ND	300	ug/Kg	1	07/05/21	WB	SW8270D	
Acenaphthylene	ND	300	ug/Kg	1	07/05/21	WB	SW8270D	
Anthracene	ND	300	ug/Kg	1	07/05/21	WB	SW8270D	
Benz(a)anthracene	ND	300	ug/Kg	1	07/05/21	WB	SW8270D	
Benzo(a)pyrene	ND	300	ug/Kg	1	07/05/21	WB	SW8270D	
Benzo(b)fluoranthene	ND	300	ug/Kg	1	07/05/21	WB	SW8270D	
Benzo(ghi)perylene	ND	300	ug/Kg	1	07/05/21	WB	SW8270D	
Benzo(k)fluoranthene	ND	300	ug/Kg	1	07/05/21	WB	SW8270D	
Chrysene	ND	300	ug/Kg ug/Kg	1	07/05/21	WB	SW8270D	
Dibenz(a,h)anthracene	ND	300	ug/Kg ug/Kg	1	07/05/21	WB	SW8270D	
Fluoranthene	370	300	ug/Kg ug/Kg		07/05/21	WB	SW8270D SW8270D	
Fiuorantinene	310	300	ug/Ng	1	07/03/21	VVD	SVVOZIUD	

Client ID: MHS 430 (0.5`)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Fluorene	ND	300	ug/Kg	1	07/05/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	07/05/21	WB	SW8270D
Naphthalene	ND	300	ug/Kg	1	07/05/21	WB	SW8270D
Phenanthrene	ND	300	ug/Kg	1	07/05/21	WB	SW8270D
Pyrene	320	300	ug/Kg	1	07/05/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	73		%	1	07/05/21	WB	30 - 130 %
% Nitrobenzene-d5	76		%	1	07/05/21	WB	30 - 130 %
% Terphenyl-d14	82		%	1	07/05/21	WB	30 - 130 %

<sup>3 =</sup> This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

### Pesticide Comment:

Poor surrogate recovery was observed. Sample was re-extracted with similar results.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/02/2110:10Location Code:TIGHE-DASReceived by:B07/02/2114:49

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>Laboratory Data</u> SDG ID: GCI67319

Phoenix ID: CI67328

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 431 (0.5`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	5.09	0.71	mg/Kg	1	07/11/21	CPP	SW6010D
Lead	20.6	0.35	mg/Kg	1	07/11/21	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	07/14/21	CPP	SW6010D
SPLP Metals Digestion	Completed		-		07/14/21	AB/AB	SW3010A
Percent Solid	84		%		07/02/21	KL	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/06/21	L/K	SW3545A
Extraction of ETPH	Completed				07/02/21	I/E	SW3546
Soil Extraction for SVOA PAH	Completed				07/02/21	R/K	SW3546
Extraction for PCB	Completed				07/02/21	S/KL	SW3540C
SPLP Extraction for Metals	Completed				07/13/21	AB	SW1312
Total Metals Digest	Completed				07/02/21	M/AG/BF	SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	07/04/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/04/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	69		%	1	07/04/21	JRB	50 - 150 %
% Terphenyl (surr)	71		%	1	07/04/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	190	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1221	ND	190	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1232	ND	190	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1242	ND	190	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1248	ND	190	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1254	ND	190	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1260	ND	190	ug/Kg	5	07/07/21	SC	SW8082A

Client ID: MHS 431 (0.5`)

_	5 "	RL/		<b>5</b>	D . /T	_	5.
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
PCB-1262	ND	190	ug/Kg	5	07/07/21	SC	SW8082A
PCB-1268	ND	190	ug/Kg	5	07/07/21	SC	SW8082A
QA/QC Surrogates							
% DCBP	103		%	5	07/07/21	SC	30 - 150 %
% DCBP (Confirmation)	100		%	5	07/07/21	SC	30 - 150 %
% TCMX	83		%	5	07/07/21	SC	30 - 150 %
% TCMX (Confirmation)	89		%	5	07/07/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
a-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Alachlor	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Aldrin	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
b-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Chlordane	ND	39	ug/Kg	2	07/07/21	CG	SW8081B
d-BHC	ND	1.6	ug/Kg	2	07/07/21	CG	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Endrin	ND	7.8 7.8	ug/Kg	2	07/07/21	CG	SW8081B
		7.8 7.8	ug/Kg		07/07/21	CG	SW8081B
Endrin aldehyde	ND			2			
Endrin ketone	ND	7.8	ug/Kg	2	07/07/21 07/07/21	CG	SW8081B
g-BHC	ND	1.6	ug/Kg	2		CG	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	07/07/21	CG	SW8081B
Methoxychlor	ND	39	ug/Kg	2	07/07/21	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	07/07/21	CG	SW8081B
QA/QC Surrogates							
% DCBP	43		%	2	07/07/21	CG	30 - 150 %
% DCBP (Confirmation)	36		%	2	07/07/21	CG	30 - 150 %
% TCMX	40		%	2	07/07/21	CG	30 - 150 %
% TCMX (Confirmation)	38		%	2	07/07/21	CG	30 - 150 %
Polynuclear Aromatic	HC						
2-Methylnaphthalene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Benz(a)anthracene	530	270	ug/Kg	1	07/05/21	WB	SW8270D
Benzo(a)pyrene	570	270	ug/Kg	1	07/05/21	WB	SW8270D
Benzo(b)fluoranthene	520	270	ug/Kg	1	07/05/21	WB	SW8270D
Benzo(ghi)perylene	420	270	ug/Kg	1	07/05/21	WB	SW8270D
Benzo(k)fluoranthene	440	270	ug/Kg	1	07/05/21	WB	SW8270D
Chrysene	520	270	ug/Kg	1	07/05/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Fluoranthene	1300	270	ug/Kg	1	07/05/21	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
	.,,,	0	~9/1 <b>.</b> 9	•	J., JO, E1		

Client ID: MHS 431 (0.5`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Indeno(1,2,3-cd)pyrene	450	270	ug/Kg	1	07/05/21	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	07/05/21	WB	SW8270D
Phenanthrene	810	270	ug/Kg	1	07/05/21	WB	SW8270D
Pyrene	1100	270	ug/Kg	1	07/05/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	79		%	1	07/05/21	WB	30 - 130 %
% Nitrobenzene-d5	83		%	1	07/05/21	WB	30 - 130 %
% Terphenyl-d14	86		%	1	07/05/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/02/2110:15Location Code:TIGHE-DASReceived by:B07/02/2114:49

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>Laboratory Data</u> SDG ID: GCI67319

Phoenix ID: CI67329

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 432 (0.5`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	3.54	0.74	mg/Kg	1	07/11/21	CPP	SW6010D
Lead	12.7	0.37	mg/Kg	1	07/11/21	CPP	SW6010D
Percent Solid	86		%		07/02/21	KL	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/06/21	L/K	SW3545A
Extraction of ETPH	Completed				07/02/21	I/E	SW3546
Soil Extraction for SVOA PAH	Completed				07/02/21	R/K	SW3546
Extraction for PCB	Completed				07/02/21	S/KL	SW3540C
Total Metals Digest	Completed				07/02/21	M/AG/B	F SW3050B
TPH by GC (Extractable	e Products	s)					
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	07/04/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/04/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	59		%	1	07/04/21	JRB	50 - 150 %
% Terphenyl (surr)	61		%	1	07/04/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	 ND	190	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1221	ND	190	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1232	ND	190	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1242	ND	190	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1248	ND	190	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1254	ND	190	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1260	ND	190	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1262	ND	190	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1268	ND	190	ug/Kg	5	07/06/21	SC	SW8082A
QA/QC Surrogates							

Client ID: MHS 432 (0.5`)

Danamatan	Danult	RL/	l laite	Diletter	Data/Tima	Dec	Deference
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% DCBP	80		%	5	07/06/21	SC	30 - 150 %
% DCBP (Confirmation)	81		%	5	07/06/21	SC	30 - 150 %
% TCMX	67		%	5	07/06/21	SC	30 - 150 %
% TCMX (Confirmation)	67		%	5	07/06/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
a-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Alachlor	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Aldrin	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
b-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Chlordane	ND	38	ug/Kg	2	07/07/21	CG	SW8081B
d-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Endrin	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	07/07/21	CG	SW8081B
Methoxychlor	ND	38	ug/Kg	2	07/07/21	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/07/21	CG	SW8081B
QA/QC Surrogates	ND	100	ug/itg	-	01701721	00	CWOOOTE
% DCBP	55		%	2	07/07/21	CG	30 - 150 %
% DCBP (Confirmation)	49		%	2	07/07/21	CG	30 - 150 %
% TCMX	54		%	2	07/07/21	CG	30 - 150 %
% TCMX (Confirmation)	51		%	2	07/07/21	CG	30 - 150 %
			,,	_	0.701721		33 .33 /3
Polynuclear Aromatic H							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/05/21	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/05/21	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/05/21	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	07/05/21	WB	SW8270D
Benz(a)anthracene	290	260	ug/Kg	1	07/05/21	WB	SW8270D
Benzo(a)pyrene	280	260	ug/Kg	1	07/05/21	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	07/05/21	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	07/05/21	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	07/05/21	WB	SW8270D
Chrysene	270	260	ug/Kg	1	07/05/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/05/21	WB	SW8270D
Fluoranthene	680	260	ug/Kg	1	07/05/21	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	07/05/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	07/05/21	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/05/21	WB	SW8270D
Phenanthrene	430	260	ug/Kg	1	07/05/21	WB	SW8270D

Client ID: MHS 432 (0.5`)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	570	260	ug/Kg	1	07/05/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	78		%	1	07/05/21	WB	30 - 130 %
% Nitrobenzene-d5	77		%	1	07/05/21	WB	30 - 130 %
% Terphenyl-d14	87		%	1	07/05/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

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Phyllis Shiller, Laboratory Director

July 19, 2021



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/02/2110:30Location Code:TIGHE-DASReceived by:B07/02/2114:49

Rush Request: Standard Analyzed by: see "By" below

P.O.#: 150439 MILL HILL

<u>aboratory Data</u> SDG ID: GCI67319

Phoenix ID: Cl67330

Project ID: MILL HILL ELEM SCHOOL

Client ID: MHS 433 (0.5`)

D .	D 1	RL/	11.5	<b>5</b> 37. <i>d</i> 3	D . /T'	_	D (
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Arsenic	2.73	0.70	mg/Kg	1	07/11/21	CPP	SW6010D
Lead	9.55	0.35	mg/Kg	1	07/11/21	CPP	SW6010D
Percent Solid	86		%		07/02/21	KL	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/06/21	L/E	SW3545A
Extraction of ETPH	Completed				07/02/21	I/E	SW3546
Soil Extraction for SVOA PAH	Completed				07/02/21	R/K	SW3546
Extraction for PCB	Completed				07/02/21	S/KL	SW3540C
Total Metals Digest	Completed				07/02/21	M/AG/B	F SW3050B
TPH by GC (Extractable	e Products	<u>s)</u>					
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	07/04/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/04/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	67		%	1	07/04/21	JRB	50 - 150 %
% Terphenyl (surr)	70		%	1	07/04/21	JRB	50 - 150 %
PCB (Soxhlet SW35400	<u>C)</u>						
PCB-1016	ND	190	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1221	ND	190	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1232	ND	190	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1242	ND	190	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1248	ND	190	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1254	ND	190	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1260	ND	190	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1262	ND	190	ug/Kg	5	07/06/21	SC	SW8082A
PCB-1268	ND	190	ug/Kg	5	07/06/21	SC	SW8082A
QA/QC Surrogates							

Client ID: MHS 433 (0.5`)

		RL/	11.76	D.1. (1	D / /T'	_	D (
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
% DCBP	84		%	5	07/06/21	SC	30 - 150 %
% DCBP (Confirmation)	84		%	5	07/06/21	SC	30 - 150 %
% TCMX	70		%	5	07/06/21	SC	30 - 150 %
% TCMX (Confirmation)	70		%	5	07/06/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
a-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Alachlor	ND	7.6	ug/Kg	2	07/07/21	CG	SW8081B
Aldrin	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
b-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Chlordane	ND	38	ug/Kg	2	07/07/21	CG	SW8081B
d-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	07/07/21	CG	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	07/07/21	CG	SW8081B
Endrin	ND	7.6	ug/Kg	2	07/07/21	CG	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	07/07/21	CG	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	07/07/21	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	07/07/21	CG	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	07/07/21	CG	SW8081B
Methoxychlor	ND	38	ug/Kg	2	07/07/21	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/07/21	CG	SW8081B
QA/QC Surrogates							
% DCBP	60		%	2	07/07/21	CG	30 - 150 %
% DCBP (Confirmation)	53		%	2	07/07/21	CG	30 - 150 %
% TCMX	54		%	2	07/07/21	CG	30 - 150 %
% TCMX (Confirmation)	52		%	2	07/07/21	CG	30 - 150 %
Polynuclear Aromatic I	HC:						
2-Methylnaphthalene	ND	270	ug/Kg	1	07/06/21	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	07/06/21	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	07/06/21	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	07/06/21	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	07/06/21	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	07/06/21	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	07/06/21	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	07/06/21	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	07/06/21	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	07/06/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	07/06/21	WB	SW8270D
Fluoranthene	520	270	ug/Kg	1	07/06/21	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	07/06/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	07/06/21	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	07/06/21	WB	SW8270D
Phenanthrene	310	270	ug/Kg	1	07/06/21	WB	SW8270D
i nenanunene	310	210	ug/Ng	•	01/00/21	***	5110L10D

Client ID: MHS 433 (0.5`)

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Pyrene	440	270	ug/Kg	1	07/06/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	78		%	1	07/06/21	WB	30 - 130 %
% Nitrobenzene-d5	81		%	1	07/06/21	WB	30 - 130 %
% Terphenyl-d14	86		%	1	07/06/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

### **Comments:**

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Phyllis Shiller, Laboratory Director

July 19, 2021



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# QA/QC Report

July 19, 2021

### QA/QC Data

SDG I	.D.: G	CI67	'319

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	Rec Limits	RPD Limits
QA/QC Batch 583388 (mg	g/L), QC Samp	ole No: (	CI66823	(CI67320	), CI67:	322, CI	67327, (	CI6732	8)				
ICP Metals - SPLP E	xtraction												
Arsenic	BRL	0.004	< 0.004	< 0.004	NC	105	104	1.0	105			80 - 120	20
Lead	BRL	0.010	< 0.010	< 0.010	NC	99.8	99.2	0.6	103			80 - 120	20
Comment:													
Additional Criteria: LCS acc	eptance range	is 80-120	0% MS acc	ceptance i	range 75	5-125%.							
QA/QC Batch 582154 (mg Cl67326, Cl67327, Cl673				(CI6731	9, CI67	7320, C	:167321,	CI6732	22, CI6	7323, C	167324	, CI6732	25,
ICP Metals - Soil													
Arsenic	BRL	0.67	5.09	4.47	13.0	98.6	101	2.4	90.6			75 - 125	35
Lead	BRL	0.33	20.6	19.3	6.50	98.7	99.7	1.0	93.3			75 - 125	35
Comment:													
Additional Criteria: LCS acc	eptance range	is 80-120	)% MS acc	ceptance i	range 75	5-125%.							



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# QA/QC Report

### QA/QC Data

July 19, 2021			QA/QC [	<u>Data</u>				SDG I	.D.: C	GCI673	19	
Parameter	Blank	BIk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 582197 (mg/Kg), (	QC San	ple No: CI672	02 (Cl67319, Cl6	7320, C	CI67321,	CI673	22, CI6	7323, C	167324	I, CI673	<u> </u>	
Cl67326, Cl67327, Cl67328, Cl6		•										
TPH by GC (Extractable P	<u>Produc</u>	<u>ts) - Soil</u>										
Ext. Petroleum H.C. (C9-C36)	ND	50		98	100	2.0	83	82	1.2	60 - 120	30	
% COD (surr)	62	%		81	85	4.8	77	111	36.2	50 - 150	30	r
% Terphenyl (surr) Comment:	70	%		79	56	34.1	99	102	3.0	50 - 150	30	r
Additional surrogate criteria: LCS a normalized based on the alkane ca			20% MS acceptanc	e range	50-150%	5. The E	TPH/DR	O LCS h	as bee	n		
QA/QC Batch 582138 (ug/Kg), C	C Sam	ple No: CI5091	11 10X (CI67319,	CI6732	21, CI67	322, CI	67323,	CI6732	4, CI6	7325)		
Polychlorinated Biphenyls	- Soil											
PCB-1016	ND	170		88	86	2.3	89	82	8.2	40 - 140	30	
PCB-1221	ND	170								40 - 140	30	
PCB-1232	ND	170								40 - 140	30	
PCB-1242	ND	170								40 - 140	30	
PCB-1248	ND	170								40 - 140	30	
PCB-1254	ND	170								40 - 140	30	
PCB-1260	ND	170		98	100	2.0	108	93	14.9	40 - 140	30	
PCB-1262	ND	170								40 - 140	30	
PCB-1268	ND	170								40 - 140	30	
% DCBP (Surrogate Rec)	114	%		113	117	3.5	115	126	9.1	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	100	%		101	105	3.9	93	100	7.3	30 - 150	30	
% TCMX (Surrogate Rec)	100	%		106	104	1.9	99	98	1.0	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	104	%		111	107	3.7	97	103	6.0	30 - 150	30	
QA/QC Batch 582577 (ug/Kg), C	C Sam	ple No: CI6732	20 10X (CI67320)									
Polychlorinated Biphenyls	- Soil											
PCB-1016	ND	170		85	90	5.7	78	94	18.6	40 - 140	30	
PCB-1221	ND	170								40 - 140	30	
PCB-1232	ND	170								40 - 140	30	
PCB-1242	ND	170								40 - 140	30	
PCB-1248	ND	170								40 - 140	30	
PCB-1254	ND	170								40 - 140	30	
PCB-1260	ND	170		108	113	4.5	95	112	16.4	40 - 140	30	
PCB-1262	ND	170								40 - 140	30	
PCB-1268	ND	170								40 - 140	30	
% DCBP (Surrogate Rec)	109	%		106	110	3.7	87	101	14.9	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	124	%		120	123	2.5	99	115	15.0	30 - 150	30	
% TCMX (Surrogate Rec)	86	%		74	79	6.5	74	93	22.8	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	92	%		80	89	10.7	80	103	25.1	30 - 150	30	
QA/QC Batch 582193 (ug/Kg), C		ple No: CI6732	26 10X (CI67326,	CI6732	27, CI67	328, CI	67329,	CI6733	0)			
Polychlorinated Biphenyls	- Soil											
PCB-1016	ND	170		84	85	1.2	82	88	7.1	40 - 140	30	

SDG I.D.: GCI67319

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
PCB-1221	ND	170							40 - 140	30
PCB-1232	ND	170							40 - 140	30
PCB-1242	ND	170							40 - 140	30
PCB-1248	ND	170							40 - 140	30
PCB-1254	ND	170							40 - 140	30
PCB-1260	ND	170	94	95	1.1	90	98	8.5	40 - 140	30
PCB-1262	ND	170							40 - 140	30
PCB-1268	ND	170							40 - 140	30
% DCBP (Surrogate Rec)	117	%	101	101	0.0	91	106	15.2	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	108	%	93	94	1.1	82	96	15.7	30 - 150	30
% TCMX (Surrogate Rec)	108	%	96	98	2.1	90	101	11.5	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	110	%	99	103	4.0	93	105	12.1	30 - 150	30
QA/QC Batch 582112 (ug/Kg), Q Cl67326)	C Sam	ple No: Cl66604 2X (Cl67319, (	CI67320	), CI673	21, Cl6	7322, (	CI67323	, CI673	324, CI6	7325,
<u>Pesticides - Soil</u>										
4,4' -DDD	ND	1.7	77	82	6.3	64	59	8.1	40 - 140	30
4,4' -DDE	ND	1.7	74	79	6.5	65	58	11.4	40 - 140	30
4,4' -DDT	ND	1.7	70	71	1.4	58	54	7.1	40 - 140	30
a-BHC	ND	1.0	70	77	9.5	64	54	16.9	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	75	80	6.5	62	57	8.4	40 - 140	30
b-BHC	ND	1.0	70	80	13.3	64	56	13.3	40 - 140	30
Chlordane	ND	33	70	74	5.6	59	54	8.8	40 - 140	30
d-BHC	ND	3.3	68	72	5.7	55	54	1.8	40 - 140	30
Dieldrin	ND	1.0	74	78	5.3	61	57	6.8	40 - 140	30
Endosulfan I	ND	3.3	87	92	5.6	73	67	8.6	40 - 140	30
Endosulfan II	ND	3.3	103	109	5.7	85	81	4.8	40 - 140	30
Endosulfan sulfate	ND	3.3	76	82	7.6	63	59	6.6	40 - 140	30
Endrin	ND	3.3	76	80	5.1	65	59	9.7	40 - 140	30
Endrin aldehyde	ND	3.3	68	72	5.7	58	56	3.5	40 - 140	30
Endrin ketone	ND	3.3	76	83	8.8	64	59	8.1	40 - 140	30
g-BHC	ND	1.0	74	79	6.5	65	58	11.4	40 - 140	30
Heptachlor	ND	3.3	76	80	5.1	67 41	68 54	1.5	40 - 140	30
Heptachlor epoxide  Methoxychlor	ND ND	3.3 3.3	72 76	77 82	6.7 7.6	61 40	56		40 - 140	30
Toxaphene	ND	130	NA	NA	NC	68 NA	61 NA	10.9 NC	40 - 140 40 - 140	30 30
% DCBP	82	%	86	91	5.6	74	70	5.6	30 - 150	30
% DCBP (Confirmation)	79	%	85	89	4.6	70	69	1.4	30 - 150	30
% TCMX	79	%	80	86	7.2	67	61	9.4	30 - 150	30
% TCMX (Confirmation)	78	%	81	86	6.0	65	67	3.0	30 - 150	30
QA/QC Batch 582360 (ug/Kg), Q	C Sam	ple No: CI68387 2X (CI67328, 0	CI67329	9, CI673	30)					
Pesticides - Soil										
4,4' -DDD	ND	1.7	67	73	8.6	50	50	0.0	40 - 140	30
4,4' -DDE	ND	1.7	65	71	8.8	49	50	2.0	40 - 140	30
4,4' -DDT	ND	1.7	64	69	7.5	47	48	2.1	40 - 140	30
a-BHC	ND	1.0	61	67	9.4	42	45	6.9	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	59	63	6.6	41	43	4.8	40 - 140	30
b-BHC	ND	1.0	61	64	4.8	43	43	0.0	40 - 140	30
Chlordane	ND	33	67	68	1.5	44	46	4.4	40 - 140	30
d-BHC	ND	3.3	55	59	7.0	39	40	2.5	40 - 140	30
Dieldrin	ND	1.0	76	81	6.4	53	54	1.9	40 - 140	30

SDG I.D.: GCI67319

Endessuffan   ND   3.3   3.3   7.6   80   5.1   5.3   5.5   3.7   4.1   30   50   50   50   50   50   50   50	Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Endosulfan II         ND         3.3         92         98         6.3         64         6.7         1.0         4.0         1.0         4.0         1.0         4.0         1.0         4.0         1.0         4.0         1.0         4.0         1.0         4.0         1	Endosulfan I	ND	3.3	76	80	5.1	53	55	3.7	40 - 140	30
Endina   Mole   3.3   5.2   5.5   5.6	Endosulfan II	ND		92	98	6.3	64	67	4.6	40 - 140	30
Endrin keltone	Endosulfan sulfate	ND	3.3	66	62	6.3	43	46	6.7	40 - 140	30
Endinskalene	Endrin	ND	3.3	67	72	7.2	47	48	2.1	40 - 140	30
Path   Path	Endrin aldehyde	ND	3.3	52	55	5.6	39	39	0.0	40 - 140	30
Methodocycling	Endrin ketone	ND	3.3	63	66	4.7	42	44	4.7	40 - 140	30
Hephatori provide	g-BHC	ND	1.0	59	64	8.1	41	43	4.8	40 - 140	30
Methoxychlor	Heptachlor	ND	3.3	65	69	6.0	45	46	2.2	40 - 140	30
Toxaphene         ND         130         30         NA         NA         NC         NA         NA         NC         104         30	Heptachlor epoxide	ND	3.3	61	65	6.3	42	44	4.7	40 - 140	30
% DÖP         67         %         %         77         78         13         52         54         3.8         9.15         9           % DCBP (Confirmation)         70         %         70         70         00         04         4         45         2.2         9         10         30           % TCMX (Confirmation)         60         %         60         %         70         14         47         48         2.1         30-150         30           AVAC DS SUPS LIVE (STATE)         ND         1.7         60         5.1         51         5         3.8         40-140         30           4.4'-DDD         ND         1.7         57         60         5.1         5         5         1.8         40-140         30           4.4'-DDT         ND         1.7         53         88         9.0         55         5         1.8         40-140         30         40-140         30           4.4'-DDT         ND         1.7         53         88         9.0         55         5         1.8         40-140         30           4.4'-DDT         ND         1.0         0         6         6         1.8<	Methoxychlor	ND	3.3	70	74	5.6	52	50	3.9	40 - 140	30
KB DEP (Confirmation)         70         %         70         70         0.0         44         45         2.2         30-150         30           % TCMX         66         %         70         70         70         11         47         51         40         30         30           CAVCORD Start S82751 (ug/Kg). UC Samular Name         ND         1.7         60         70         0         51         51         51         53         3.8         40-140         0           A4'-DDD         ND         1.7         56         63         11.8         54         55         55         0.0         40-10         30           A4'-DDT         ND         1.7         53         58         9.0         55         55         0.0         40-10         30           Alachir         ND         1.0         6         63         18.4         51         51         62         40	Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% TOMX         66         %         74         73         1.4         49         51         40         30-150         30           % TOMX (Confirmation)         69         %         69         70         1.4         47         48         2.1         30-150         30           CAYCC Batch 582751 (ug/Kg), CC Sampler         ND         1.7         60         5.1         51         53         3.8         40-104         30           4.4'-DDC         ND         1.7         57         60         5.1         51         53         3.8         40-140         30           4.4'-DDT         ND         1.7         53         58         9.0         55         55         0.0         40-140         30           4.4'-DDT         ND         1.7         53         58         9.0         55         55         0.0         40-140         30           Alacin         ND         3.3         40         1.0         50         60         62         3.3         51         51         60         40-140         30           Alcin         ND         3.3         40         60         51         50         51         50         5		67	%	77	78	1.3	52	54	3.8	30 - 150	30
% TCMX (Confirmation)         69         %         69         70         1.4         47         48         2.1         30 - 180         30           CA/CCE Batch 582751 (ug/Kg), CC Sarabara         Scribtoles - SOII           4.4 -DDC         ND         1.7         57         60         5.1         51         53         3.8         40 - 140         30           4.4 -DDC         ND         1.7         56         63         11.8         55         1.8         40 - 140         30           4.4 -DDC         ND         1.0         1.7         58         89         55         1.0         40 - 140         30           4.4 -DDT         ND         1.0         60         62         3.7         9.2         50         47         62         40 - 140         30           Alachin         ND         1.0         60         62         3.3         51         50         40 - 140         30           Albidin         ND         1.0         60         62         3.3         51         50         50         40 - 140         30           Chordadan         ND         3.3         60         60         60         7.5         53 </td <td>% DCBP (Confirmation)</td> <td>70</td> <td></td> <td>70</td> <td>70</td> <td>0.0</td> <td>44</td> <td>45</td> <td>2.2</td> <td>30 - 150</td> <td>30</td>	% DCBP (Confirmation)	70		70	70	0.0	44	45	2.2	30 - 150	30
Note	% TCMX				73	1.4	49	51	4.0	30 - 150	30
Pesticides - Soil         4.4 - DDC         ND         1.7         57         60         5.1         51         53         3.8         0-140         30           4.4 - DDC         ND         1.7         56         63         31.8         55         55         0.0         40-100         30           4.4 - DDC         ND         1.7         53         58         9.0         55         55         0.0         40-140         30           a-BHC         ND         1.0         52         57         9.2         50         47         62         40-140         30           Alachlor         ND         1.0         60         63         15.4         87         55         50         40-140         30           Alethin         ND         1.0         60         63         15.4         47         48         61         61         55         50         40-140         30           Alethin         ND         3.3         60         64         63         15.4         47         48         61-140         60         61         55         51         52         40-140         30           Bell         ND         3	% TCMX (Confirmation)	69	%	69	70	1.4	47	48	2.1	30 - 150	30
4.4°-DDD         ND         1.7         57         60         5.1         51         53         3.8         40-140         30           4.4°-DDE         ND         1.7         56         63         11.8         54         55         1.8         40-140         30           4.4°-DDT         ND         1.0         1.7         53         58         9.0         55         55         50         0.0         40-140         30           a-BHC         ND         1.0         60         52         57         9.2         50         47         6.2         40-140         30           Alachior         ND         1.0         60         62         23         51         51         0.0         40-140         30           BHC         ND         1.0         60         62         33         15         47         48         2.1         40-140         30           Chlordane         ND         3.3         57         63         10.0         50         51         20         40-140         30           BHC         ND         3.3         67         63         10.0         50         51         50         51		C Sam	ple No: CI70507 2X (CI67327)								
4,4'-DDE       ND       1,7       56       63       11.8       54       55       1.8       40-100       30         4,4'-DDT       ND       1,7       53       58       9.0       55       55       0.0       40-140       30         ABHC       ND       10       10       52       57       9.2       60       40-140       30         Alachlor       ND       3.3       NA       NA       NA       NA       NA       NA       NA       0.0       40-140       30         Aldrin       ND       1.0       0.0       62       3.3       51       51       0.0       40-140       30         Chlordane       ND       3.3       54       63       15.4       57       52       54       57       54       40-140       30         Chlordane       ND       3.3       54       63       15.4       51       50       50       40-140       30         Chlordane       ND       3.3       60       75       62       8.4       51       50       50       40-140       30         Deledrin       ND       3.3       60       75       62											
4,4°-DDT         ND         1,7         53         58         9.0         55         55         0.0         40-140         30           a-BHC         ND         1.0         52         57         9.2         50         47         6.2         40-140         30           Alachin         ND         3.3         NA         NA         NA         NA         ND         10.0         40-140         30           b-BHC         ND         1.0         54         60         10.5         54         57         5.4         40-140         30           Chlordane         ND         3.3         57         62         8.4         51         50         50         40-140         30           BHC         ND         1.0         57         63         10.0         50         50         50         40-140         30           Endosulfan I         ND         3.3         60         66         9.5         83         61         62         50         40-140         30           Endosulfan II         ND         3.3         60         66         9.5         53         57         63         10.0         56         52	•										
a BHC         ND         1.0         52         57         9.2         50         47         6.2         40-140         30           Alachlor         ND         3.3         NA         NA         NC         NA         NA         NC         40-140         30           b-BHC         ND         1.0         54         60         10.5         54         57         5.4         40-140         30           Chlordane         ND         3.3         54         63         15.4         47         48         2.1         40-140         30           Dieldrin         ND         3.3         57         62         8.4         47         48         2.1         40-140         30           Endosulfan I         ND         3.3         69         75         8.3         61         62         1.6         40-140         30           Endosulfan II         ND         3.3         60         69         75         8.3         61         62         1.6         40-140         30           Endosulfan Sulfate         ND         3.3         60         69         75         8.3         51         62         12         9 <t< td=""><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	•										
Alachlor         ND         3.3         NA         NA         NC         NA         NC         404         0         40-140         30           Aldrin         ND         1.0         60         62         3.3         51         51         0.0         40-140         30           Chlordane         ND         1.0         54         60         10.5         54         57         54         57         54         40											
Aldrin         ND         1.0         60         62         3.3         51         51         0.0         40-140         30           b-BHC         ND         1.0         54         60         10.5         54         67         5.4         61-140         30           Chlordane         ND         3.3         54         63         15.4         47         48         2.1         40-140         30           BHC         ND         3.3         57         62         8.4         51         50         2.0         40-140         30           Dieldrin         ND         3.3         69         75         83         61         62         1.6         40-140         30           Endosulfan II         ND         3.3         60         66         9.5         53         55         3.7         40-140         30           Endosulfan Sulfate         ND         3.3         51         69         14.5         51         52         1.7         40-140         30           Endrin Alebyde         ND         3.3         51         60         16.5         51         50         2.0         40-140         30											
B-BHC         ND         1.0         1.0         54         60         10.5         54         57         5.4         0-140         30           Chlordane         ND         33         54         63         15.4         47         48         2.1         40-140         30           B-HC         ND         3.3         57         62         8.0         50         51         20         40-140         30           Endosulfan I         ND         3.3         69         7.5         8.3         61         62         1.6         40-140         30           Endosulfan II         ND         3.3         69         7.5         8.3         61         62         1.6         40-140         30           Endosulfan Sulfate         ND         3.3         60         6         6.5         5         52         2.7         40-140         30           Endrin aldehyde         ND         3.3         61         60         1.5         45         49         8.5         40-140         30           Endrin aldehyde         ND         3.3         3.3         57         63         10.0         5         5         7         4 <td></td>											
Chlordane         ND         33         54         63         15.4         47         48         2.1         40-140         30           d-BHC         ND         3.3         57         62         8.4         51         50         2.0         40-140         30           Dieldrin         ND         1.0         57         62         8.4         51         50         2.0         40-140         30           Endosulfan II         ND         3.3         69         7.0         73         75         2.7         40-140         30           Endosulfan III         ND         3.3         60         66         65         9.5         53         55         2.7         40-140         30           Endrin Sulfate         ND         3.3         60         66         66         7.5         51         52         2.7         40-140         30           Endrin Methone         ND         3.3         64         69         7.5         54         56         36         40-140         30           Bell Chin Methone         ND         3.3         3         61         69         7.5         53         50         52         30<											
d-BHC         ND         3.3         57         62         8.4         51         50         2.0         40-140         30           Dieldrin         ND         1.0         57         63         10.0         50         51         2.0         40-140         30           Endosulfan I         ND         3.3         89         75         53         61         62         1.6         40-140         30           Endosulfan Sulfate         ND         3.3         60         66         9.5         53         55         2.7         40-140         30           Endrin         ND         3.3         60         66         9.5         53         55         2.7         40-140         30           Endrin ladehyde         ND         3.3         61         60         16.5         45         49         8.5         40-140         30           Endrin ketone         ND         3.3         61         60         7.5         45         49         8.5         40-140         30           BeHC         ND         1.0         53         3.3         10.0         55         52         7.4         40-140         30											
Dieldrin   ND   1.0   1.0   57   63   10.0   50   51   2.0   40 -140   30     Endosulfan   ND   3.3   89   75   8.3   61   62   1.6   40 -140   30     Endosulfan   ND   3.3   89   75   70   73   75   2.7   40 -140   30     Endosulfan sulfate   ND   3.3   60   66   9.5   53   55   2.7   40 -140   30     Endrin sulfate   ND   3.3   51   59   14.5   51   52   1.9   40 -140   30     Endrin aldehyde   ND   3.3   51   60   61   62   45   49   8.5   40 -140   30     Endrin ketone   ND   3.3   64   69   7.5   54   56   3.6   40 -140   30     Endrin ketone   ND   3.3   64   69   7.5   54   56   3.6   40 -140   30     Endrin ketone   ND   3.3   65   61   8.5   51   50   2.0   40 -140   30     Endrin ketone   ND   3.3   57   63   10.0   56   52   2.0   40 -140   30     Heptachlor epoxide   ND   3.3   57   63   10.0   56   52   3.7   40 -140   30     Heptachlor epoxide   ND   3.3   57   63   10.0   56   52   3.7   40 -140   30     Heptachlor epoxide   ND   3.3   57   63   10.0   56   52   3.7   40 -140   30     Heptachlor epoxide   ND   3.3   57   63   10.0   56   52   3.7   40 -140   30     Heptachlor epoxide   ND   3.3   57   63   10.0   56   52   3.7   40 -140   30     Heptachlor epoxide   ND   3.3   57   63   10.0   56   52   3.7   40 -140   30     Heptachlor epoxide   ND   3.0   30   30   30     Heptachlor epoxide   ND   3.0   30   30   30   30     Heptachlor epoxide   ND   3.0   30   30   30   30   30     Heptachlor epoxide   ND   3.0   30   30   30   30   30   30   3											
Endosulfan I   ND   3.3   3.3   69   75   8.3   61   62   1.6   40 -140   30     Endosulfan I   ND   3.3   60   66   7.5   53   75   3.7   40 -140   30     Endosulfan Sulfate   ND   3.3   51   59   14.5   51   52   1.9   40 -140   30     Endrin Sulfate   ND   3.3   51   59   14.5   51   52   1.9   40 -140   30     Endrin Aldehyde   ND   3.3   51   50   16.2   45   49   8.5   40 -140   30     Endrin Aldehyde   ND   3.3   64   69   7.5   54   56   3.6   40 -140   30     Endrin Aldehyde   ND   3.3   51   60   16.2   45   49   8.5   40 -140   30     Endrin Aldehyde   ND   3.3   57   63   10.0   56   52   7.4   40 -140   30     Heptachlor   ND   3.3   57   63   10.0   56   52   7.4   40 -140   30     Heptachlor epoxide   ND   3.3   55   62   10.0   50   52   3.9   40 -140   30     Heptachlor epoxide   ND   3.3   57   63   10.0   53   55   3.7   40 -140   30     Heptachlor epoxide   ND   3.3   57   63   10.0   53   55   3.7   40 -140   30     Heptachlor   ND   3.3   57   63   10.0   53   55   3.7   40 -140   30     Heptachlor epoxide   ND   3.3   57   63   10.0   53   55   3.7   40 -140   30     Heptachlor   ND   3.3   57   63   10.0   53   55   3.7   40 -140   30     Heptachlor   ND   3.3   57   63   10.0   53   55   3.7   40 -140   30     Heptachlor   ND   3.3   57   64   11.4   60   60   0.0   30 -150   30     Heptachlor   ND   3.3   57   66   74   11.4   60   60   0.0   30 -150   30     Heptachlor   ND   0.003   85   74   13.8   57   57   3.4   30 -150   30     Heptachlor   ND   0.003   85   74   13.8   57   57   57   3.4   40 -140   20     Heptachlor   ND   0.003   85   74   13.8   57   57   57   57   57   57   57   5											
Endosulfan II         ND         3.3         83         89         7.0         73         75         2.7         40-140         30           Endosulfan sulfate         ND         3.3         60         66         9.5         53         55         3.7         40-140         30           Endrin         ND         3.3         51         59         14.5         51         52         1.9         40-140         30           Endrin ladehyde         ND         3.3         64         69         7.5         54         49         40-140         30           Endrin ketone         ND         3.3         64         69         7.5         54         56         3.6         40-140         30           BeHC         ND         3.3         57         63         10.0         56         52         7.4         40-140         30           Heptachlor epoxide         ND         3.3         55         62         12.0         50         52         7.4         40-140         30           Methoxychlor         ND         3.3         3         55         62         12.0         50         52         3.9         40-140         30											
Endosulfan sulfate         ND         3.3         60         66         9.5         53         55         3.7         40-140         30           Endrin         ND         3.3         51         59         14.5         51         52         1.9         40-140         30           Endrin aldehyde         ND         3.3         51         60         16.2         45         49         8.5         40-140         30           Endrin ketone         ND         3.3         64         69         7.5         54         56         3.6         40-140         30           9-BHC         ND         1.0         56         61         8.5         51         50         2.0         40-140         30           Heptachlor epoxide         ND         3.3         57         63         10.0         56         52         7.4         40-140         30           Heptachlor epoxide         ND         3.3         55         62         12.0         50         52         3.7         40-140         30           Methoxychlor         ND         130         3.3         55         62         12.0         50         52         3.7         40-											
Endrin         ND         3.3         51         59         14.5         51         52         1.9         40-140         30           Endrin aldehyde         ND         3.3         51         60         16.2         45         49         8.5         40-140         30           Endrin ketone         ND         3.3         64         69         7.5         54         50         3.6         40-140         30           g-BHC         ND         1.0         56         61         8.5         51         50         2.0         40-140         30           Heptachlor         ND         3.3         57         63         10.0         50         52         3.9         40-140         30           Heptachlor epoxide         ND         3.3         55         62         12.0         50         52         3.9         40-140         30           Methoxychlor         ND         3.3         57         63         10.0         53         55         3.7         40-140         30           DCBP         68         %         64         71         10.4         59         61         3.3         30-150         30      <											
Endrin aldehyde         ND         3.3         51         60         16.2         45         49         8.5         40-140         30           Endrin ketone         ND         3.3         64         69         7.5         54         56         3.6         40-140         30           g-BHC         ND         1.0         56         61         8.5         51         50         2.0         40-140         30           Heptachlor         ND         3.3         57         63         10.0         56         52         7.4         40-140         30           Heptachlor epoxide         ND         3.3         55         62         12.0         50         52         3.9         40-140         30           Heptachlor epoxide         ND         3.3         55         62         12.0         50         52         3.9         40-140         30           Heptachlor epoxide         ND         3.3         3.3         55         62         12.0         50         52         3.9         40-140         30           Foxparl         4.0         10         3.3         40         40         10         40         40         40 <td></td>											
Endrin ketone         ND         3.3         64         69         7.5         54         56         3.6         40-140         30           g-BHC         ND         1.0         56         61         8.5         51         50         2.0         40-140         30           Heptachlor         ND         3.3         57         63         10.0         56         52         7.4         40-140         30           Heptachlor epoxide         ND         3.3         55         62         12.0         50         52         3.9         40-140         30           Methoxychlor         ND         3.3         57         63         10.0         53         55         3.7         40-140         30           Methoxychlor         ND         130         NA         NA         NC         NA											
g-BHC         ND         1.0         56         61         8.5         51         50         2.0         40 - 140         30           Heptachlor         ND         3.3         57         63         10.0         56         52         7.4         40 - 140         30           Heptachlor epoxide         ND         3.3         55         62         12.0         50         52         3.9         40 - 140         30           Methoxychlor         ND         3.3         57         63         10.0         53         55         3.7         40 - 140         30           Methoxychlor         ND         130         NA         NA         NC         NA         NA         NC         40 - 140         30           % DCBP         68         %         64         71         10.4         59         61         3.3         30 - 150         30           % DCBP (Confirmation)         71         %         66         74         11.4         60         60         0.0         30 - 150         30           % TCMX (Confirmation)         63         %         62         70         12.1         59         57         3.4         30 - 150	-										
Heptachlor         ND         3.3         57         63         10.0         56         52         7.4         40 - 140         30           Heptachlor epoxide         ND         3.3         55         62         12.0         50         52         3.9         40 - 140         30           Methoxychlor         ND         3.3         57         63         10.0         53         55         3.7         40 - 140         30           Toxaphene         ND         130         NA         NA         NC         NA         NA         NC         40 - 140         30           % DCBP         68         %         64         71         10.4         59         61         3.3         30 - 150         30           % DCBP (Confirmation)         71         %         66         74         11.4         60         60         0.00         30 - 150         30           % TCMX (Confirmation)         63         %         62         70         12.1         59         57         3.4         30 - 150         30           CA/CMX (Confirmation)         63         %         62         70         12.1         59         57         3.4											
Heptachlor epoxide         ND         3.3         55         62         12.0         50         52         3.9         40 - 140         30           Methoxychlor         ND         3.3         57         63         10.0         53         55         3.7         40 - 140         30           Toxaphene         ND         130         NA         NA         NC         NA         NA         NC         40 - 140         30           % DCBP         68         %         64         71         10.4         59         61         3.3         30 - 150         30           % DCBP (Confirmation)         71         %         66         74         11.4         60         60         0.0         30 - 150         30           % TCMX         62         %         60         68         12.5         59         57         3.4         30 - 150         30           QA/OC Batch 583662 (ug/L), QC Sample         No: CI73393 (CI67322)         Pesticides           4,4'-DDD         ND         0.003         85         74         13.8											
Methoxychlor         ND         3.3         57         63         10.0         53         55         3.7         40-140         30           Toxaphene         ND         130         NA         NA         NC         NA         NA         NC         40-140         30           % DCBP         68         %         64         71         10.4         59         61         3.3         30-150         30           % DCBP (Confirmation)         71         %         66         74         11.4         60         60         0.0         30-150         30           % TCMX         62         %         60         68         12.5         59         57         3.4         30-150         30           % TCMX (Confirmation)         63         %         62         70         12.1         59         57         3.4         30-150         30           % TCMX (Confirmation)         63         %         62         70         12.1         59         57         3.4         30-150         30           Pesticides         4,4'-DDD         ND         0.003         85         74         13.8         -         40-140 <td< td=""><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	•										
Toxaphene         ND         130         NA         NA         NC         NA         NA         NC         40 - 140         30           % DCBP         68         %         64         71         10.4         59         61         3.3         30 - 150         30           % DCBP (Confirmation)         71         %         66         74         11.4         60         60         60         30         30 - 150         30           % TCMX         62         %         60         68         12.5         59         57         3.4         30 - 150         30           % TCMX (Confirmation)         63         %         62         70         12.1         59         57         3.4         30 - 150         30           CM/CC Batch 583662 (ug/L), QC Sampler No: CI73393 (CI67322)         Sampler No: CI733	-										
% DCBP         68         %         64         71         10.4         59         61         3.3         30 - 150         30           % DCBP (Confirmation)         71         %         66         74         11.4         60         60         0.00         30 - 150         30           % TCMX         62         %         60         68         12.5         59         57         3.4         30 - 150         30           CA/OC Batch 583662 (ug/L), QC Sample No: CI73393 (CI67322)           Pesticides           4,4' -DDD         ND         0.003         85         74         13.8         13.8         14         40 - 140         20           4,4' -DDE         ND         0.003         81         71         13.2         16         40 - 140         20           4,4' -DDT         ND         0.003         82         73         11.6         16         40 - 140         20           4-BHC         ND         0.002         72         64         11.8         17         40 - 140         20           Aldrin         ND         0.002         NA         NA         NC         18         13.1         18         18											
% DCBP (Confirmation)       71       %       66       74       11.4       60       60       0.0       30 - 150       30         % TCMX       62       %       60       68       12.5       59       57       3.4       30 - 150       30         CA/QC Batch 583662 (ug/L), QC Sample No: CI73393 (CI67322)         Pesticides         4,4'-DDD       ND       0.003       85       74       13.8       40 - 140       20         4,4'-DDE       ND       0.003       81       71       13.2       40 - 140       20         4,4'-DDT       ND       0.003       82       73       11.6       40 - 140       20         4-BHC       ND       0.002       72       64       11.8       40 - 140       20         Aldrin       ND       0.002       73       64       13.1       40 - 140       20         BHC       ND       0.002       73       64       13.1       40 - 140       20         BHC       ND       0.002       80       83       3.7       40 - 140       20         Aldrin       ND       0.002       80       83       3.7       40 - 140	•										
% TCMX       62       %       60       68       12.5       59       57       3.4       30 - 150       30         % TCMX (Confirmation)       63       %       62       70       12.1       59       57       3.4       30 - 150       30         CA/QC Batch 583662 (ug/L), QC Sample No: CI73393 (CI67322)         Pesticides         4,4' -DDD       ND       0.003       85       74       13.8       40 - 140       20         4,4' -DDE       ND       0.003       81       71       13.2       40 - 140       20         4,4' -DDT       ND       0.003       82       73       11.6       40 - 140       20         a-BHC       ND       0.002       72       64       11.8       40 - 140       20         Aldrin       ND       0.002       73       64       13.1       40 - 140       20         b-BHC       ND       0.002       80       83       3.7       40 - 140       20											
% TCMX (Confirmation)       63       %       62       70       12.1       59       57       3.4       30 - 150       30         QA/QC Batch 583662 (ug/L), QC Sample No: CI73393 (CI67322)         Pesticides         4,4' -DDD       ND       0.003       85       74       13.8       40 - 140       20         4,4' -DDE       ND       0.003       81       71       13.2       40 - 140       20         4,4' -DDT       ND       0.003       82       73       11.6       40 - 140       20         a-BHC       ND       0.002       72       64       11.8       40 - 140       20         Alachlor       ND       0.005       NA       NA       NC       40 - 140       20         Aldrin       ND       0.002       73       64       13.1       40 - 140       20         B-BHC       ND       0.002       73       64       13.1       40 - 140       20         B-BHC       ND       0.002       80       83       3.7       40 - 140       20											
QA/QC Batch 583662 (ug/L), QC Sample No: CI73393 (CI67322)         Pesticides         4,4' -DDD       ND 0.003       85 74 13.8       40 - 140 20         4,4' -DDE       ND 0.003       81 71 13.2       40 - 140 20         4,4' -DDT       ND 0.003       82 73 11.6       40 - 140 20         a-BHC       ND 0.002       72 64 11.8       40 - 140 20         Alachlor       ND 0.005       NA NA NC       40 - 140 20         Aldrin       ND 0.002       73 64 13.1       40 - 140 20         b-BHC       ND 0.002       80 83 3.7       40 - 140 20											
4,4'-DDD         ND         0.003         85         74         13.8         40 - 140         20           4,4'-DDE         ND         0.003         81         71         13.2         40 - 140         20           4,4'-DDT         ND         0.003         82         73         11.6         40 - 140         20           a-BHC         ND         0.002         72         64         11.8         40 - 140         20           Alachlor         ND         0.005         NA         NA         NC         40 - 140         20           Aldrin         ND         0.002         73         64         13.1         40 - 140         20           b-BHC         ND         0.002         80         83         3.7         40 - 140         20											
4,4' -DDE       ND       0.003       81       71       13.2       40 - 140       20         4,4' -DDT       ND       0.003       82       73       11.6       40 - 140       20         a-BHC       ND       0.002       72       64       11.8       40 - 140       20         Alachlor       ND       0.005       NA       NA       NC       40 - 140       20         Aldrin       ND       0.002       73       64       13.1       40 - 140       20         b-BHC       ND       0.002       80       83       3.7       40 - 140       20	Pesticides										
4,4' -DDE       ND       0.003       81       71       13.2       40 - 140       20         4,4' -DDT       ND       0.003       82       73       11.6       40 - 140       20         a-BHC       ND       0.002       72       64       11.8       40 - 140       20         Alachlor       ND       0.005       NA       NA       NC       40 - 140       20         Aldrin       ND       0.002       73       64       13.1       40 - 140       20         b-BHC       ND       0.002       80       83       3.7       40 - 140       20	4,4' -DDD	ND	0.003	85	74	13.8				40 - 140	20
4,4' -DDT       ND       0.003       82       73       11.6       40 - 140       20         a-BHC       ND       0.002       72       64       11.8       40 - 140       20         Alachlor       ND       0.005       NA       NA       NC       40 - 140       20         Aldrin       ND       0.002       73       64       13.1       40 - 140       20         b-BHC       ND       0.002       80       83       3.7       40 - 140       20											
a-BHC     ND     0.002     72     64     11.8     40 - 140     20       Alachlor     ND     0.005     NA     NA     NC     40 - 140     20       Aldrin     ND     0.002     73     64     13.1     40 - 140     20       b-BHC     ND     0.002     80     83     3.7     40 - 140     20											
Alachlor         ND         0.005         NA         NA         NC         40 - 140         20           Aldrin         ND         0.002         73         64         13.1         40 - 140         20           b-BHC         ND         0.002         80         83         3.7         40 - 140         20											
Aldrin     ND     0.002     73     64     13.1     40 - 140     20       b-BHC     ND     0.002     80     83     3.7     40 - 140     20											
b-BHC ND 0.002 80 83 3.7 40 - 140 20											
72 112	Chlordane	ND	0.050	83	72	14.2				40 - 140	20

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Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
d-BHC	ND	0.005	47	42	11.2				40 - 140	20
Dieldrin	ND	0.002	83	72	14.2				40 - 140	20
Endosulfan I	ND	0.005	96	80	18.2				40 - 140	20
Endosulfan II	ND	0.005	135	119	12.6				40 - 140	20
Endosulfan sulfate	ND	0.005	86	75	13.7				40 - 140	20
Endrin	ND	0.005	84	73	14.0				40 - 140	20
Endrin aldehyde	ND	0.005	84	75	11.3				40 - 140	20
Endrin ketone	ND	0.005	92	82	11.5				40 - 140	20
g-BHC	ND	0.002	76	68	11.1				40 - 140	20
Heptachlor	ND	0.005	78	70	10.8				40 - 140	20
Heptachlor epoxide	ND	0.005	85	72	16.6				40 - 140	20
Methoxychlor	ND	0.005	85	77	9.9				40 - 140	20
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20
% DCBP	74	%	90	75	18.2				30 - 150	20
% DCBP (Confirmation)	42	%	44	36	20.0				30 - 150	20
% TCMX	55	%	79	79	0.0				30 - 150	20
% TCMX (Confirmation)	50	%	64	68	6.1				30 - 150	20

A LCS and LCS duplicate were performed instead of a MS and MSD. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS and LCSD

QA/QC Batch 582155 (ug/kg), QC Sample No: CI67040 (CI67319, CI67320, CI67321, CI67322, CI67323)

Comment:

Polynuclear Aromatic F	•		0.0 (0.070.7)	0.07020, 0.0	.,	0.07.02	_, 0.0.	020)			
2-Methylnaphthalene	ND	230		78	78	0.0	83	78	6.2	40 - 140	30
Acenaphthene	ND	230		80	82	2.5	82	81	1.2	30 - 130	30
Acenaphthylene	ND	230		77	80	3.8	80	79	1.3	40 - 140	30
Anthracene	ND	230		83	86	3.6	85	84	1.2	40 - 140	30
Benz(a)anthracene	ND	230		86	88	2.3	88	89	1.1	40 - 140	30
Benzo(a)pyrene	ND	230		88	92	4.4	90	92	2.2	40 - 140	30
Benzo(b)fluoranthene	ND	230		91	91	0.0	92	95	3.2	40 - 140	30
Benzo(ghi)perylene	ND	230		87	90	3.4	89	90	1.1	40 - 140	30
Benzo(k)fluoranthene	ND	230		83	88	5.8	88	88	0.0	40 - 140	30
Chrysene	ND	230		84	86	2.4	87	89	2.3	40 - 140	30
Dibenz(a,h)anthracene	ND	230		90	93	3.3	91	91	0.0	40 - 140	30
Fluoranthene	ND	230		86	89	3.4	87	91	4.5	40 - 140	30
Fluorene	ND	230		85	86	1.2	87	84	3.5	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230		91	96	5.3	96	95	1.0	40 - 140	30
Naphthalene	ND	230		72	72	0.0	76	70	8.2	40 - 140	30
Phenanthrene	ND	230		79	83	4.9	83	86	3.6	40 - 140	30
Pyrene	ND	230		89	92	3.3	92	95	3.2	30 - 130	30
% 2-Fluorobiphenyl	76	%		74	77	4.0	77	73	5.3	30 - 130	30
% Nitrobenzene-d5	81	%		81	78	3.8	88	82	7.1	30 - 130	30
% Terphenyl-d14	85	%		84	88	4.7	86	79	8.5	30 - 130	30
Comment:											

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 582162 (ug/kg), QC Sample No: Cl67329 (Cl67324, Cl67325, Cl67326, Cl67327, Cl67328, Cl67329, Cl67330)

Polynuclear Aromatic	: HC - Soil										
2-Methylnaphthalene	ND	230	84	83	1.2	81	82	1.2	40 - 140	30	
Acenaphthene	ND	230	86	86	0.0	87	98	11.9	30 - 130	30	
Acenaphthylene	ND	230	83	83	0.0	82	83	1.2	40 - 140	30	
Anthracene	ND	230	88	88	0.0	90	111	20.9	40 - 140	30	
Benz(a)anthracene	ND	230	91	90	1.1	90	138	42.1	40 - 140	30	r

% % Blk LCS **LCSD** LCS MS **MSD** RPD MS Rec RPD Blank RL % % % % RPD Limits Limits Parameter Benzo(a)pyrene ND 230 94 92 2.2 94 136 36.5 40 - 140 30 Benzo(b)fluoranthene ND 230 96 93 3.2 95 138 36.9 40 - 140 30 Benzo(ghi)perylene ND 92 230 93 90 3.3 118 24.8 40 - 140 30 Benzo(k)fluoranthene ND 230 90 91 1.1 91 120 27.5 40 - 140 30 Chrysene ND 230 89 88 1.1 89 132 38.9 40 - 140 30 Dibenz(a,h)anthracene ND 230 96 93 3.2 96 111 14.5 40 - 140 30 Fluoranthene ND 230 94 90 4.3 99 192 63.9 40 - 140 30 m.r 91 ND 230 90 1.1 91 104 Fluorene 13.3 40 - 140 30 Indeno(1,2,3-cd)pyrene ND 230 99 96 3.1 98 129 27.3 40 - 140 30 Naphthalene ND 230 78 79 1.3 77 77 0.0 40 - 140 30 Phenanthrene ND 230 87 84 3.5 90 167 59.9 40 - 140 30 m,r ND 230 98 92 6.3 99 177 Pyrene 56.5 30 - 130 30 m,r 30 - 130 % 2-Fluorobiphenyl 83 % 81 83 2.4 80 80 0.0 30 82 % % Nitrobenzene-d5 83 84 1.2 83 78 6.2 30 - 130 30 % Terphenyl-d14 94 % 93 90 3.3 87 91 45 30 - 130 30 Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director

SDG I.D.: GCI67319

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

Monday, July 19, 2021

Criteria: CT: GAM, RC

# Sample Criteria Exceedances Report GCI67319 - TIGHE-DAS

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	Criteria	Units
CI67322	\$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	7.8	1.6	3	3	ug/Kg
CI67322	\$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	4.9	1.6	3	3	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



# REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. Client: Tighe & Bond

Project Location: MILL HILL ELEM SCHOOL Project Number:

Laboratory Sample ID(s): CI67319-CI67330 Sampling Date(s): 7/2/2021

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 8081, 8082, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes □ No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes □ No
1B	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	✓ Yes □ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	✓ Yes □ No □ NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: ETPH Narration, SVOA Narration.	☐ Yes <b>☑</b> No
5	a) Were reporting limits specified or referenced on the chain-of-custody?	✓ Yes □ No
	b) Were these reporting limits met?	✓ Yes □ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes 🗹 No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	✓ Yes □ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

t, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.
Authorized Signature: Roshui Waket Position: Project Manager
Printed Name: Rashmi Makol Date: Monday, July 19, 2021
Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



## RCP Certification Report

July 19, 2021 SDG I.D.: GCI67319

### SDG Comments

Metals Analysis:

The client requested a shorter list of elements than the 6010 RCP list. Only Arsenic and Lead are reported as requested on the chain of custody.

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

### **ETPH Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 582197 (Samples: Cl67319, Cl67320, Cl67321, Cl67322, Cl67323, Cl67324, Cl67325, Cl67326, Cl67327, Cl67328, Cl67329, Cl67330): ----

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% Terphenyl (surr))

#### Instrument:

#### AU-FID1 07/03/21-1

Jeff Bucko, Chemist 07/03/21

Cl67319 (1X), Cl67321 (1X), Cl67323 (1X), Cl67324 (1X), Cl67325 (1X), Cl67327 (1X), Cl67328 (1X), Cl67329 (1X), Cl67330 (1X)

The initial calibration (ETPH615I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (703A004\_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

### AU-FID1 07/06/21-1

Jeff Bucko, Chemist 07/06/21

CI67326 (1X)

The initial calibration (ETPH615I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (706A003) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

### AU-FID11 07/07/21-1

Jeff Bucko, Chemist 07/07/21

CI67320 (5X), CI67322 (5X)

The initial calibration (ETPH621I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (707A003\_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

### QC (Batch Specific):

### Batch 582197 (CI67202)

Cl67319, Cl67320, Cl67321, Cl67322, Cl67323, Cl67324, Cl67325, Cl67326, Cl67327, Cl67328, Cl67329, Cl67330

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: % Terphenyl (surr)(34.1%)

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

#### ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# **Certification Report**

July 19, 2021 SDG I.D.: GCI67319

# ICP Metals Narration

### Instrument:

ARCOS 07/10/21 09:08 Cindy Pearce, Chemist 07/10/21

Cl67319, Cl67320, Cl67321, Cl67322, Cl67323, Cl67324, Cl67325, Cl67326, Cl67327, Cl67328, Cl67329, Cl67330

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130%

(ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

# BLUE 07/14/21 10:22 Cindy Pearce, Chemist 07/14/21

Cl67320, Cl67322, Cl67327, Cl67328

The initial calibration met criteria.

The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.

The continuing calibration blanks were less than the reporting level for the elements reported.

The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria. The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

# QC (Batch Specific):

# Batch 583388 (Cl66823)

Cl67320, Cl67322, Cl67327, Cl67328

All LCS recoveries were within 80 - 120 with the following exceptions: None.

All LCSD recoveries were within 80 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

# QC (Site Specific):

# Batch 582154 (Cl67328)

Cl67319, Cl67320, Cl67321, Cl67322, Cl67323, Cl67324, Cl67325, Cl67326, Cl67327, Cl67328, Cl67329, Cl67330

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

# **PCB Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

### Instrument:

AU-ECD24 07/08/21-1

Saadia Chudary, Chemist 07/08/21

CI67320 (5X)



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# **RCP Certification Report**

July 19, 2021 SDG I.D.: GCI67319

# **PCB Narration**

The initial calibration (PC604Al) RSD for the compound list was less than 20% except for the following compounds: None. The initial calibration (PC604Bl) RSD for the compound list was less than 20% except for the following compounds: None. The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

### AU-ECD29 07/07/21-1

Saadia Chudary, Chemist 07/07/21

CI67319 (5X), CI67325 (5X)

The initial calibration (PC607Al) RSD for the compound list was less than 20% except for the following compounds: None. The initial calibration (PC607Bl) RSD for the compound list was less than 20% except for the following compounds: None. The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

# AU-ECD3 07/07/21-1

Saadia Chudary, Chemist 07/07/21

CI67323 (5X)

The initial calibration (PC518Al) RSD for the compound list was less than 20% except for the following compounds: None. The initial calibration (PC518Bl) RSD for the compound list was less than 20% except for the following compounds: None. The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

### AU-ECD5 07/06/21-1

Saadia Chudary, Chemist 07/06/21

CI67322 (5X), CI67324 (5X), CI67326 (5X), CI67327 (5X), CI67329 (5X)

The initial calibration (PC518Al) RSD for the compound list was less than 20% except for the following compounds: None. The initial calibration (PC518Bl) RSD for the compound list was less than 20% except for the following compounds: None. The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

# AU-ECD5 07/07/21-1

Saadia Chudary, Chemist 07/07/21

CI67328 (5X)

The initial calibration (PC518AI) RSD for the compound list was less than 20% except for the following compounds: None. The initial calibration (PC518BI) RSD for the compound list was less than 20% except for the following compounds: None. The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

# AU-ECD6 07/06/21-1

Saadia Chudary, Chemist 07/06/21

CI67321 (5X), CI67330 (5X)

The initial calibration (PC701Al) RSD for the compound list was less than 20% except for the following compounds: None. The initial calibration (PC701Bl) RSD for the compound list was less than 20% except for the following compounds: None. The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

# QC (Batch Specific):

# Batch 582138 (CI50911)

Cl67319, Cl67321, Cl67322, Cl67323, Cl67324, Cl67325

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

# QC (Site Specific):

### Batch 582193 (CI67326)

CI67326, CI67327, CI67328, CI67329, CI67330

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.



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# RCP Certification Report

July 19, 2021 SDG I.D.: GCI67319

# **PCB Narration**

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

# Batch 582577 (Cl67320)

CI67320

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

# **PEST Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

### Instrument:

### AU-ECD35 07/06/21-1

Chelsey Guerette, Chemist 07/06/21

 $\mathsf{C167319}\ (2\mathsf{X}),\ \mathsf{C167320}\ (2\mathsf{X}),\ \mathsf{C167321}\ (2\mathsf{X}),\ \mathsf{C167322}\ (2\mathsf{X}),\ \mathsf{C167323}\ (2\mathsf{X}),\ \mathsf{C167324}\ (2\mathsf{X}),\ \mathsf{C167325}\ (2\mathsf{X}),\ \mathsf{C167326}\ (2\mathsf{X})$ 

The initial calibration (PS0701Al) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0701BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.

# AU-ECD35 07/07/21-1

Chelsey Guerette, Chemist 07/07/21

CI67328 (2X), CI67329 (2X), CI67330 (2X)

The initial calibration (PS0701AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0701BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.

# AU-ECD4 07/16/21-1

Chelsey Guerette, Chemist 07/16/21

CI67322 (1X)

The initial calibration (PS0706AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0706BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CI67322

Preceding CC 716B004A - b-BHC 43%H (20%)

Succeeding CC 716B017 - None.

# AU-ECD7 07/08/21-2

Chelsey Guerette, Chemist 07/08/21

CI67327 (2X)

The initial calibration (PS0629AI) RSD for the compound list was less than 20% except for the following compounds: None. The initial calibration (PS0629BI) RSD for the compound list was less than 20% except for the following compounds: None.



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# RCP Certification Report

July 19, 2021 SDG I.D.: GCI67319

### **PEST Narration**

The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CI67327

Preceding CC 708A063 - None.

Succeeding CC 708A082 - Endrin -22%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

# QC (Batch Specific):

## Batch 582112 (Cl66604)

Cl67319, Cl67320, Cl67321, Cl67322, Cl67323, Cl67324, Cl67325, Cl67326

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

### Batch 582360 (CI68387)

CI67328, CI67329, CI67330

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

### Batch 582751 (CI70507)

CI67327

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

# Batch 583662 (CI73393)

CI67322

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

A LCS and LCS duplicate were performed instead of a MS and MSD. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS and LCSD

# **SVOA Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 582162 (Samples: Cl67324, Cl67325, Cl67326, Cl67327, Cl67328, Cl67329, Cl67330): -----

The MS and/or the MSD recovery is above the upper range, therefore a slight high bias is possible. (Fluoranthene, Phenanthrene, Pyrene)

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Benz(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Phenanthrene, Pyrene)



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# RCP Certification Report

July 19, 2021 SDG I.D.: GCI67319

# **SVOA Narration**

### Instrument:

# CHEM36 07/02/21-1 Matt Richard, Chemist 07/02/21

CI67319 (1X), CI67320 (1X), CI67321 (1X), CI67322 (1X), CI67323 (1X)

Initial Calibration Evaluation (CHEM36/36\_BN\_0630):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

# Continuing Calibration Verification (CHEM36/0702\_03-36\_BN\_0630):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

### CHEM36 07/05/21-1 Matt Richard, Chemist 07/05/21

Cl67324 (1X), Cl67325 (1X), Cl67326 (1X), Cl67327 (1X), Cl67328 (1X), Cl67329 (1X), Cl67330 (1X)

Initial Calibration Evaluation (CHEM36/36\_BN\_0630):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

# Continuing Calibration Verification (CHEM36/0705\_03-36\_BN\_0630):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

# QC (Batch Specific):

## Batch 582155 (CI67040)

Cl67319, Cl67320, Cl67321, Cl67322, Cl67323

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

# QC (Site Specific):

# Batch 582162 (CI67329)

Cl67324, Cl67325, Cl67326, Cl67327, Cl67328, Cl67329, Cl67330

All LCS recoveries were within 40 - 140 with the following exceptions: None.



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# **RCP Certification Report**

July 19, 2021 SDG I.D.: GCI67319

# **SVOA Narration**

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: Fluoranthene(192%), Phenanthrene(167%), Pyrene(177%)

All MS/MSD RPDs were less than 30% with the following exceptions: Benz(a)anthracene(42.1%), Benzo(a)pyrene(36.5%),

Benzo(b)fluoranthene(36.9%), Chrysene(38.9%), Fluoranthene(63.9%), Phenanthrene(59.9%), Pyrene(56.5%)

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

# **Temperature Narration**

The samples were received at 2.1C with cooling initiated. (Note acceptance criteria for relevant matrices is above freezing up to 6°C)

			Cooler: Coolant: IPK \\\	Ner: Yes No	
	CHAIN OF CL	CHAIN OF CUSTODY RECORD	Temp 2,10 °C	. Pg <b>/</b> of /	
Environmental Laboratories, Inc.	587 East Middle Tumpike, P.O. Box Email: info@phoenixlabs.com	587 East Middle Tumpike, P.O. Box 370, Manchester, CT 06040 Email: info@phoenixlabs.com Fax (860) 645-0823	Data Deliv	ontact Options:	
Customer: Tich + Real Time	Cirent Servic	Project: (AC) 11.77 F S	Call Project PO: 154179	11 H 11 Y 11 H	
1000	Report to:	11.0 HILL 130.00 S	This		
3	Invoice to:	7517		completed with	
	QUOTE#	DAS Raths		Borne Quantities.	
Sampler's Signature Oate	Analysis			ligari toss	
Matrix Code:  DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Soild W=Wipe OIL=Oil B=Bulk L=Liquid X =		6	Political in the second	HOS LIGGE	
PHOENIX USE ONLY SAMPLE # Identification Matrix Sam	Date Time Sampled Sampled	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Par ling	Mag elegate School 16	
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(01331 MH13435(3)	9.34				Copers,
(1333 M45426/14)	0h;3				
MHBUDY (3	hh', 3				_
M4047D	<b>3</b> ). (				
(0733C) 447136(05)	0.70				
1327	0:05				
0/154514M 8	0:0				
1330 MHS437	(0:1)				
(1550) MB< 435 (0.7) V	<b>7</b>				
A Company of the Comp	7.3.3 13.38		MCP Certification	Data Format	
Jan				☐ PDF ☐ GIS/Key	
Comments. Special Requirements or Requisitons:		GA Leachability	6w-2 6w-3	Couls Other Chair of als	
P. A. Lo. (mg/kg	Turnaround Time:	<u> </u>	S-1 GW-1   S-1 GW-2   S-1 GW-3   S-2 GW-1   S-2 GW-2   S-2 GW-3	<u>bata Package</u> ☐ Tier II Checklist	
( , ), \( \frac{1}{2} \)	2 Days*	GA-GW   I/C DEC Objectives   Other	S.3 GW-1 S.3 GW-2 S-3 GW-3 S-3 GW-3 S-3 GW-3 S-3 GW-3 S-3 GW-1 S-3	Ly rull Data Package Throng Phoenix Std Report	
**************************************		GB-GW State where s	State where samples were collected:	* SURCHARGE APPLIES	
Market Market Areas (Areas Calebras Calebras Provinces Calebras Ca		_		PEL-126 REV. 06/20	

# Sarah Bell

Jill L. Libby <a href="mailto:com/JLEbby@tigheBond.com/">JLEbby@tigheBond.com/</a>
Tuesday, July 13, 2021 9:02 AM
Sarah Bell
Brian Sirowich
Add-Ons Mill Hill To: Cc: Subject: From: Sent:

Good Morning Sarah,

Could I please get the following add-ons for Standard TAT?

Thanks,

SPLP Pesticides:

MHS 426 18 in

7/2/2021 CI67322

GCI67319

SPLP PAHs

**MHB** 419 MHB 414

**MHS 422** GCI66823 CI66845 7/1/2021 0.5 ft GCI66823 7/1/2021 CI66842  $1 \, \mathrm{ft}$ GCI66823 7/1/2021 CI66837 2 ft

SPLP Arsenic:

MHS 430	0.5 ft	7/2/2021	CI67327	GCI67319
MHS 401	1.5 ft	7/1/2021	CI66823	GCI66823
MHS 412	1.5 ft	7/1/2021	CI66835	GCI66823
MHS 407	1.5 ft	7/1/2021	CI66829	GCI66823
MHS 426	18 in	7/2/2021	CI67322	GCI67319
MHS 424	18 in	7/2/2021	CI67320	GCI67319

SPLP Lead

GCI66823	GCI66823	GCI67319	GCI67319	GCI67319	GCI67319
CI66835	CI66844	CI67328	CI67327	CI67320	CI67322
7/1/2021	7/1/2021	7/2/2021	7/2/2021	7/2/2021	7/2/2021
1.5 ft	1 ft	0.5 ft	0.5 ft	18 in	18 in
MHS 412	MHB 421	MHS 431	MHS 430	MHS 424	MHS 426

Jill Libby Project Environmental Scientist II

**Tighe & Bond** | One University Avenue, Suite 100 | Westwood, MA 02090 | Cell: 315-436-8260 (cell) **www.tighebond.com** | Follow us on: <u>Twitter Facebook LinkedIn</u>



Monday, July 19, 2021

Attn: Brian Sirowich Tighe & Bond 213 Court St, Suite 1100 Middletown, CT 06457

Project ID: MILL HILL SDG ID: GCI75185

Sample ID#s: CI75185 - CI75186

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis/Shiller

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618

MA Lab Registration #M-CT007

ME Lab Registration #CT-007 NH Lab Registration #213693-A,B NJ Lab Registration #CT-003 NY Lab Registration #11301 PA Lab Registration #68-03530

RI Lab Registration #63

UT Lab Registration #CT00007 VT Lab Registration #VT11301



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# Sample Id Cross Reference

July 19, 2021

SDG I.D.: GCI75185

Project ID: MILL HILL

Client Id	Lab Id	Matrix
MHS 501 (0-2`)	CI75185	SOIL
MHB 502 (3`)	CI75186	SOIL



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

Sample InformationCustody InformationDateTimeMatrix:SOILCollected by:07/15/218:15Location Code:TIGHE-DASReceived by:B07/15/2116:57

Rush Request: 24 Hour Analyzed by: see "By" below

<u>Laboratory Data</u> SDG ID: GCI75185

Phoenix ID: CI75185

Project ID: MILL HILL
Client ID: MHS 501 (0-2`)

150439MH

P.O.#:

RL/

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	83		%		07/15/21	AR	SW846-%Solid
Soil Extraction for SVOA PAH	Completed				07/15/21	R/K	SW3546
Polynuclear Aromatic H	<del>IC</del>						
2-Methylnaphthalene	ND	280	ug/Kg	1	07/16/21	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	07/16/21	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	07/16/21	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	07/16/21	WB	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	07/16/21	WB	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	07/16/21	WB	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	07/16/21	WB	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	07/16/21	WB	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	07/16/21	WB	SW8270D
Chrysene	ND	280	ug/Kg	1	07/16/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	07/16/21	WB	SW8270D
Fluoranthene	ND	280	ug/Kg	1	07/16/21	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	07/16/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	07/16/21	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	07/16/21	WB	SW8270D
Phenanthrene	ND	280	ug/Kg	1	07/16/21	WB	SW8270D
Pyrene	ND	280	ug/Kg	1	07/16/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	80		%	1	07/16/21	WB	30 - 130 %
% Nitrobenzene-d5	71		%	1	07/16/21	WB	30 - 130 %
% Terphenyl-d14	93		%	1	07/16/21	WB	30 - 130 %

Project ID: MILL HILL Phoenix I.D.: CI75185

Client ID: MHS 501 (0-2`)

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

# **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

July 19, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 19, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

**Sample Information Custody Information Date** <u>Time</u> Collected by: 07/15/21 Matrix: SOIL 8:16 Received by: Location Code: **TIGHE-DAS** В 07/15/21 16:57

Rush Request: 24 Hour Analyzed by: see "By" below

> 150439MH \_aboratory Data

SDG ID: GCI75185

Phoenix ID: CI75186

MILL HILL Project ID: Client ID: MHB 502 (3')

P.O.#:

RL/

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	87		%		07/15/21	AR	SW846-%Solid
Soil Extraction for SVOA PAH	Completed				07/15/21	R/K	SW3546
Polynuclear Aromatic I	<u>+C</u>						
2-Methylnaphthalene	ND	270	ug/Kg	1	07/16/21	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	07/16/21	WB	SW8270D
Acenaphthylene	1600	270	ug/Kg	1	07/16/21	WB	SW8270D
Anthracene	2100	270	ug/Kg	1	07/16/21	WB	SW8270D
Benz(a)anthracene	4300	270	ug/Kg	1	07/16/21	WB	SW8270D
Benzo(a)pyrene	3300	270	ug/Kg	1	07/16/21	WB	SW8270D
Benzo(b)fluoranthene	3800	270	ug/Kg	1	07/16/21	WB	SW8270D
Benzo(ghi)perylene	2700	270	ug/Kg	1	07/16/21	WB	SW8270D
Benzo(k)fluoranthene	2600	270	ug/Kg	1	07/16/21	WB	SW8270D
Chrysene	3500	270	ug/Kg	1	07/16/21	WB	SW8270D
Dibenz(a,h)anthracene	540	270	ug/Kg	1	07/16/21	WB	SW8270D
Fluoranthene	16000	2700	ug/Kg	10	07/16/21	WB	SW8270D
Fluorene	1300	270	ug/Kg	1	07/16/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	3100	270	ug/Kg	1	07/16/21	WB	SW8270D
Naphthalene	300	270	ug/Kg	1	07/16/21	WB	SW8270D
Phenanthrene	14000	2700	ug/Kg	10	07/16/21	WB	SW8270D
Pyrene	12000	2700	ug/Kg	10	07/16/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	82		%	1	07/16/21	WB	30 - 130 %
% Nitrobenzene-d5	67		%	1	07/16/21	WB	30 - 130 %
% Terphenyl-d14	99		%	1	07/16/21	WB	30 - 130 %
% 2-Fluorobiphenyl (10x)	Diluted Out		%	10	07/16/21	WB	30 - 130 %
% Nitrobenzene-d5 (10x)	Diluted Out		%	10	07/16/21	WB	30 - 130 %

Project ID: MILL HILL Phoenix I.D.: CI75186

Client ID: MHB 502 (3`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
% Terphenyl-d14 (10x)	Diluted Out		%	10	07/16/21	WB	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

# **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

July 19, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

July 19, 2021

# QA/QC Data

SDG I.D.: GCI75185

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 583726 (ug/k	(a) OC Sami	nle No: CI7F	5220 (CI75185_CI7	5186)							
Semivolatiles - Soil	ig), QC Sam	JIC INO. CIT	7220 (C173103, C17	3100)							
2-Methylnaphthalene	ND	230		81	77	5.1	80	80	0.0	40 - 140	30
Acenaphthene	ND	230		89	86	3.4	89	90	1.1	30 - 130	30
Acenaphthylene	ND	130		86	83	3.6	83	84	1.2	40 - 140	30
Anthracene	ND	230		91	85	6.8	88	87	1.1	40 - 140	30
Benz(a)anthracene	ND	230		84	78	7.4	75	76	1.3	40 - 140	30
Benzo(a)pyrene	ND	130		78	74	5.3	70	71	1.4	40 - 140	30
Benzo(b)fluoranthene	ND	160		81	77	5.1	78	79	1.3	40 - 140	30
Benzo(ghi)perylene	ND	230		92	87	5.6	84	84	0.0	40 - 140	30
Benzo(k)fluoranthene	ND	230		78	72	8.0	66	68	3.0	40 - 140	30
Chrysene	ND	230		82	78	5.0	75	77	2.6	40 - 140	30
Dibenz(a,h)anthracene	ND	130		90	85	5.7	88	90	2.2	40 - 140	30
Fluoranthene	ND	230		91	86	5.6	82	80	2.5	40 - 140	30
Fluorene	ND	230		87	85	2.3	85	89	4.6	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230		93	88	5.5	86	87	1.2	40 - 140	30
Naphthalene	ND	230		81	75	7.7	75	75	0.0	40 - 140	30
Phenanthrene	ND	130		88	82	7.1	86	86	0.0	40 - 140	30
Pyrene	ND	230		92	88	4.4	86	81	6.0	30 - 130	30
% 2-Fluorobiphenyl	80	%		86	80	7.2	79	80	1.3	30 - 130	30
% Nitrobenzene-d5	72	%		71	69	2.9	70	68	2.9	30 - 130	30
% Terphenyl-d14	86	%		92	87	5.6	92	90	2.2	30 - 130	30
Comment:											

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director

July 19, 2021

Monday, July 19, 2021

Criteria: CT: GAM, RC

# Sample Criteria Exceedances Report GCI75185 - TIGHE-DAS

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CI75186	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	3100	270	1000	1000	ug/Kg
CI75186	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3800	270	1000	1000	ug/Kg
CI75186	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3300	270	1000	1000	ug/Kg
CI75186	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	4300	270	1000	1000	ug/Kg
CI75186	\$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	3500	270	1000	1000	ug/Kg
CI75186	\$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	2700	270	1000	1000	ug/Kg
CI75186	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	3100	270	1000	1000	ug/Kg
CI75186	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	2600	270	1000	1000	ug/Kg
CI75186	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	3800	270	1000	1000	ug/Kg
CI75186	\$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	3300	270	1000	1000	ug/Kg
CI75186	\$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	4300	270	1000	1000	ug/Kg
CI75186	\$8100SMR	Pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	12000	2700	4000	4000	ug/Kg
CI75186	\$8100SMR	Phenanthrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	14000	2700	4000	4000	ug/Kg
CI75186	\$8100SMR	Fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	16000	2700	5600	5600	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



# REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. Client: Tighe & Bond

Project Location: MILL HILL Project Number:

Laboratory Sample ID(s): CI75185, CI75186 Sampling Date(s): 7/15/2021

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8270

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes □ No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes □ No
1B	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	✓ Yes □ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	✓ Yes □ No □ NA
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	✓ Yes □ No
5	a) Were reporting limits specified or referenced on the chain-of-custody?	✓ Yes □ No
	b) Were these reporting limits met?	✓ Yes □ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes 🗹 No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penal knowledge and belief and based upon my personal information contained in this analytical report, such	inquiry of those responsible for providing the
Authorized Signature:	Position: Assistant Lab Director
Printed Name: Greg Lawrence	<b>Date:</b> Monday, July 19, 2021
Name of Laboratory Phoenix Environmental Labs, Inc.	2.

This certification form is to be used for RCP methods only.



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# RCP Certification Report

July 19, 2021 SDG I.D.: GCI75185

# **SDG Comments**

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

### SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

# Instrument:

# CHEM22 07/16/21-1

Wes Bryon, Chemist 07/16/21

CI75186 (10X)

Initial Calibration Evaluation (CHEM22/22\_SPLIT\_0712):

99% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM22/0716\_03-22\_SPLIT\_0712):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

# CHEM29 07/15/21-1

Matt Richard, Chemist 07/15/21

CI75185 (1X), CI75186 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM29/29\_SPLIT\_0708):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM29/0715 05-29 SPLIT 0708):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

98% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

# QC (Batch Specific):

## Batch 583726 (CI75220)

CI75185, CI75186



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# **RCP Certification Report**

July 19, 2021 SDG I.D.: GCI75185

# **SVOA Narration**

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

# **Temperature Narration**

The samples were received at 1.5C with cooling initiated. (Note acceptance criteria for relevant matrices is above freezing up to 6°C)

THOURING TO CHAIN OF CUSTODY RECORD  The property of the prope	Coolent: Yes No Temp   Soc Pg of    Data Delivery/Contact Options:	Fax: Phone:	Project P.O. 150-739 M H  This section MUST be completed with Bottle Quantities.	000 1000 000 000 000 000 000 000 000 00	10 10 10 10 10 10 10 10 10 10 10 10 10 1				Dat	Tritication    Excel   MWRA eSMART   PDF   GIS/Key   5-1 10% CALC   FOLIS	S-1 GW-2   S-1 GW-3   S-2 GW-2   S-2 GW-3   S-3 GW-2   S-3 GW-3   Gon	<i>+</i>
TA (  Sample Date Matrix Sampled Samp	IN OF CUSTODY RECORD	©phoenixlabs.com Fax (860) 645-0823 ent Services (860) 645-8726	0: Brian S Jell 0: Tight & Jell		\$ \( \sigma \) \(				RI CI	(Nesidential)   RCP Cert	GA Leachability GA Mobility GB Leachability GB Mobility GB C GA-GW I/C DEC Objectives	
		284	the Fand ,	7/15 Water OIL=Oil	Customer Sample Sample Date Identification Matrix Sampled	3501(0-3) 5 7/1/ 8:15-		2	Date:	TINGAI TINGAI	,	][



Wednesday, July 21, 2021

Attn: Brian Sirowich Tighe & Bond 213 Court St, Suite 1100 Middletown, CT 06457

Project ID: MILL HILL SDG ID: GCI77255 Sample ID#s: CI77255

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis/Shiller

**Laboratory Director** 

NELAC - #NY11301

CT Lab Registration #PH-0618
MA Lab Registration #M-CT007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003

NY Lab Registration #11301 PA Lab Registration #68-03530

RI Lab Registration #63

UT Lab Registration #CT00007

VT Lab Registration #VT11301



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# Sample Id Cross Reference

July 21, 2021

SDG I.D.: GCI77255

Project ID: MILL HILL

Client Id	Lab Id	Matrix
MHB 503 (4)	CI77255	SOIL



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report** 

July 21, 2021

FOR: Attn: Brian Sirowich

Tighe & Bond

213 Court St, Suite 1100 Middletown, CT 06457

**Sample Information Custody Information Date** <u>Time</u> Collected by: 07/20/21 Matrix: SOIL 8:30 Received by: Location Code: **TIGHE-DAS** В 07/20/21 15:31 Rush Request:

24 Hour Analyzed by: see "By" below

> \_aboratory Data SDG ID: GCI77255

Phoenix ID: CI77255

MILL HILL Project ID: Client ID: MHB 503 (4)

150439

P.O.#:

RL/

Parameter	Result	PQL	Units	Dilution	Date/Time	Ву	Reference
Percent Solid	84		%		07/20/21	AR	SW846-%Solid
Soil Extraction for SVOA PAH	Completed				07/20/21	R/Z	SW3546
Polynuclear Aromatic H	<del>IC</del>						
2-Methylnaphthalene	ND	270	ug/Kg	1	07/21/21	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	07/21/21	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	07/21/21	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	07/21/21	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	07/21/21	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	07/21/21	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	07/21/21	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	07/21/21	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	07/21/21	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	07/21/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	07/21/21	WB	SW8270D
Fluoranthene	ND	270	ug/Kg	1	07/21/21	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	07/21/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	07/21/21	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	07/21/21	WB	SW8270D
Phenanthrene	ND	270	ug/Kg	1	07/21/21	WB	SW8270D
Pyrene	ND	270	ug/Kg	1	07/21/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	82		%	1	07/21/21	WB	30 - 130 %
% Nitrobenzene-d5	65		%	1	07/21/21	WB	30 - 130 %
% Terphenyl-d14	89		%	1	07/21/21	WB	30 - 130 %

Project ID: MILL HILL Phoenix I.D.: CI77255

Client ID: MHB 503 (4)

RL/

Parameter Result PQL Units Dilution Date/Time By Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

# **Comments:**

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

July 21, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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# QA/QC Report

July 21, 2021

# QA/QC Data

SDG I.D.: GCI77255

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 584230 (ug/k	g), QC Sam	ole No: CI77001 (CI77255)								
Polynuclear Aromatic	HC - Soil									
2-Methylnaphthalene	ND	230	72	66	8.7	80	78	2.5	40 - 140	30
Acenaphthene	ND	230	81	72	11.8	87	86	1.2	30 - 130	30
Acenaphthylene	ND	230	76	68	11.1	82	81	1.2	40 - 140	30
Anthracene	ND	230	81	71	13.2	85	88	3.5	40 - 140	30
Benz(a)anthracene	ND	230	74	65	12.9	76	76	0.0	40 - 140	30
Benzo(a)pyrene	ND	230	70	62	12.1	72	73	1.4	40 - 140	30
Benzo(b)fluoranthene	ND	230	74	67	9.9	78	77	1.3	40 - 140	30
Benzo(ghi)perylene	ND	230	76	72	5.4	96	95	1.0	40 - 140	30
Benzo(k)fluoranthene	ND	230	69	59	15.6	65	69	6.0	40 - 140	30
Chrysene	ND	230	75	65	14.3	75	76	1.3	40 - 140	30
Dibenz(a,h)anthracene	ND	230	76	70	8.2	95	94	1.1	40 - 140	30
Fluoranthene	ND	230	83	69	18.4	77	84	8.7	40 - 140	30
Fluorene	ND	230	81	70	14.6	88	89	1.1	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	79	72	9.3	97	98	1.0	40 - 140	30
Naphthalene	ND	230	68	64	6.1	72	70	2.8	40 - 140	30
Phenanthrene	ND	230	81	69	16.0	84	89	5.8	40 - 140	30
Pyrene	ND	230	84	72	15.4	80	84	4.9	30 - 130	30
% 2-Fluorobiphenyl	81	%	73	68	7.1	74	72	2.7	30 - 130	30
% Nitrobenzene-d5	64	%	62	58	6.7	63	61	3.2	30 - 130	30
% Terphenyl-d14	83	%	84	71	16.8	77	83	7.5	30 - 130	30
Comment:										

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director

July 21, 2021

Wednesday, July 21, 2021 Criteria: CT: GAM, RC

Sample Criteria Exceedances Report GCI77255 - TIGHE-DAS

State: CT

State: C1

RL Analysis
SampNo Acode Phoenix Analyte Criteria Result RL Criteria Units

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

<sup>\*\*\*</sup> No Data to Display \*\*\*



# REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. Client: Tighe & Bond

Project Location: MILL HILL Project Number:

Laboratory Sample ID(s): CI77255 Sampling Date(s): 7/20/2021

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8270

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes □ No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes □ No
1B	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	✓ Yes □ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	✓ Yes □ No □ NA
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	✓ Yes □ No
5	a) Were reporting limits specified or referenced on the chain-of-custody?	✓ Yes □ No
	b) Were these reporting limits met?	✓ Yes □ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes 🗹 No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.							
Authorized Signature:	Position: Assistant Lab Director						
Printed Name: Greg Lawrence	Date: Wednesday, July 21, 2021						
Name of Laboratory Phoenix Environmental Labs, Inc.							

This certification form is to be used for RCP methods only.



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



# RCP Certification Report

July 21, 2021 SDG I.D.: GCI77255

# SDG Comments

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

# **SVOA Narration**

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

# Instrument:

### CHEM29 07/20/21-1

Matt Richard, Chemist 07/20/21

CI77255 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM29/29\_BN\_0708):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM29/0720\_08-29\_BN\_0708):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

# QC (Batch Specific):

### Batch 584230 (CI77001)

CI77255

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

# Temperature Narration

The samples were received at 2.9C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

			Cooler: Yes O No
	CHAIN OF CUSTODY RECORD		0 0 Pg of
Environmental Laboratories, Inc.	587 East Middle Tumpike, P.O. Box 370, Manchester, CT 06040 Email: info@phoenixlabs.com Fax (860) 645-0823 Client Services (860) 645-8726	Fax: Phone	On File
Customer: Ticke & Band Tuc. Address: Control of the	Project: Ault	Fil Project P.O.	P.O. 150x39 ALINAI
Shellen Ct	1/1	300	completed with
	QUOTE # DAS	Rales	Bottle Quantities.
Sampler's Signature Morgration - Identification Sampler's Signature	7/30 Analysis		140001 2000
le: ng Water GW=Ground Water SW=Surface Water W vater SE=Sediment SL=Sludge S=Soil SD=Solid i'min X =	a Water of Collection	OF SOLETAN SOLETAN	Tuog luos
PHOENIX USE ONLY  Customer Sample  Date	Time	LING IN	\$ \$ \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
THE FOR /4 SAMPLE TO TAKE	Sampled A St. &		
Relinguished by: Accepted by:		N.	Data Format
May Sall	(Residential) Direct Exposure	RCP Cert I MCP Certification  GW-1 MWRA eSMART	
	Direct Exposure	SW Protection GW-2 S-110% CALC	CALC GIS/Key  EQUIS Other F. MA Fed a fe
Comments, Special Requirements or Regulations:	jë E		
	2 Days GA-GW 3 Days* Objectives	I/C DEC	
*WS/MSD are considered site samples and will be billed as such in accordance with the prices cucled.	Other Objectives	State where samples were collected:	* SURCHARGE APPLIES
with the phoes quoted.	lacksquare		

**APPENDIX E** 

Clean Earth	of Connecticut	Ticket:253	37576		
58 North Wa	shington Street		Date	Time	Scale
Plainville,	CT 06062	In:06/	28/2021	08:57:51	CECT
Ph:	Fax:	Out:06/	28/2021	08:57:51	CECT
			Lbs	. Tns	
Manifest:188	1224	Gross:	79 <b>,</b> 52	0 39.76	
Vehicle:589	11A	Tare:	29,98	0 14.99	
Decal:		Net:	49,54	0 24.77	
Customer:CIS	CO LLC	Carrier:			
Generator: Town	n of Fairfield	Profile #:214	1071532		
Address:725	Old Post Road	Job:Mil	l Hill E	Elementary S	chool
FAI	RFIELD, CT 06824	Address:635	Mill Hi	ll Terrace	
		FAI	RFIELD,	CT 06824	
Material					
Recyclable soil/	rock/material				
Comment:					
Driver		Facility	Clean	Earth of Co	nnecticut
		Mark Tr	an		



# NON-RCRA HAZARDOUS WASTE MANIFEST

1881224

(	CLEANEARTH	WASTE MANIFE	ST				
1.	San and San and San and State of the San and S		Mill Hi	ll <sub>GENER</sub>	ATOR'S SIT	E ADDRESS	
	75 Old Post Road		635 Mil:	l Hil	l Ter	race	
		6824	Fairfie				825
2.	GENERATOR'S PHONE		Lamon	n	TIE	9111	\
3.		4. US EPA ID NUMBER	A. TRANSPORTER I	'S PHONE		RANSPORTER S PL	ATE NUMBER
	Cisco Environmental, LLC	NOT APPLICABLE	203	752-25	558	50011	Δ
5,	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6. US EPA ID NUMBER	B. TRANSPORTER 2	S.PHONE.	TE	RANSPORTER'S PL.	TE MUMBER
	······································	NOT APPLICABLE	000 0	00-00	100	OTHER STEE	ALE NUMBER
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS	8. MAILING ADDRESS			LITY'S PHO		
	CLEAN EARTH OF CONNECTICUT	CLEAN EARTH OF CON	NECTICUT	THE STATE OF		mare.	
	58 NORTH WASHINGTON STREET	58 NORTH WASHINGTO	ON STREET	(86	0) 747-8	3888	
9.	PLAINVILLE, CT 06062	PLAINVILLE, CT 06062					
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME,	HAZARD CLASS, AND ID NUMBER		10. CON	TAINERS	II. TOTAL	12.
a,				NO.	TYPE	QUANTITY	UNIT WT/VOL
	CONNECTICUT DECLU ATED WASTES	OT ID MOVE MOVE					
	CONNECTICUT REGULATED WASTES	lobal Job #:1004865		001	DT	00020	Т
b.							
C.							
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E HANDY	NG CODES	EOD WASTE	S LISTED ABOVE	
			L. MANDE	INTERE		FINAL	
	SOIL CONTAMINATED WITH PETROLE	UM HYDROCARBONS		SO2		T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORM	IATION					
	THE	ATION.					
14,	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this cot all respects in proper condition for transport by highway according to applie	asignment are fully and accurately described above by the	he proper shipping name and	are classified, p	packaged, mar	ked and labeled/placare	led, and are in
	all respects in proper condition for transport by highway according to applic polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.	has been mixed in anyway with PCB's in concentra	cable State of Connecticut I tions greater than or equal (	aws and regul o 50 ppm. I c	ation. I certify entify that the	y that this material ne material listed above	ither contains contained no
	PRINTED/TYPED NAME	SIGNATURE				ONTH DAY	
-	JOHN MARSILIO		0.		100	ONTH DAT	YEAR
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIA	To ma	MARO			6 24	21
_	PRINTED/TYPED AME	SIGNATURE	//		I M	ONTH DAY	YEAR
/	nark I sonfly	1/1/2-1	1		(	2 28	711
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA	ALS	/			00	$\alpha$
	PRINTED/TYPED NAME	SIGNATURE			M	ONTH DAY	YEAR
		(*)				Securition Casterni	1.550.002
17.	DISCREPANCY INDICATION SPACE						
	11(a) CORRECTED WEIGHT AS SCALED 24.77	7					
	TT(a) CORRECTED WEIGHT AS SCALED 0 (TT	_TON'S					
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF	WASTE MATERIALS COVERED BY THIS MA	NIFEST EXCEPT AS NO	ED IN ITEM	[13.		
	PRINTED/TYPED NAME	SHONATURE	. 1			ONTH DAY	YEAR
	1/1/1	////	// /			100	0.
	Vilant	///	K.		K	0 18	4
	W.		THE RESERVE TO THE RE				

Clean Earth of C	onnecticut	Ticket:253	39570		
58 North Washing	ton Street		Date	Time	Scale
Plainville, CT 0	6062	In:06/	/28/2021	10:00:28	CECT
Ph:	Fax:	Out:06/	/28/2021	10:00:28	CECT
			Lbs	. Tn	S
Manifest:1881216		Gross:	78 <b>,</b> 60	0 39.3	0
Vehicle:64213A		Tare:	30,06	0 15.0	3
Decal:		Net:	48,54	0 24.2	7
Customer:CISCO LL	C	Carrier:			
Generator:Town of	Fairfield	Profile #:214	1071532		
Address:725 Old	Post Road	Job:Mi]	ll Hill E	Elementary	School
FAIRFIEL	D, CT 06824	Address:635	Mill Hi	.ll Terrace	2
		FAI	IRFIELD,	CT 06824	
Material					
Recyclable soil/rock/m	aterial				
Comment:					
Driver		Facility	Clean	Earth of C	onnecticut
		Mark Tr	ran		_





# NON-RCRA HAZARDOUS WASTE MANIFEST

1881216

6	LEANGARIN					
2.	GENERATOR'S NAME AND MAILING ADDRESS Town of Fairfield 75 Old Post Road Fairfield CT 06 GENERATOR'S PHONE 203-256-3010	pentings and	Mill Hi 635 Mil Fairfie	ll l Hill T	No.	825
3.	TRANSPORTER I COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER	1'S PHONE	TRANSPORTER'S PL	ATENUMBER
	Cisco Environmental, LLC	NOT APPLICABLE	( 203	752-2558	6421-	SH
5.	TRANSPORTER 2 COMPANY NAME	6. US EPA ID NUMBER	B. TRANSPORTER	The second secon	TRANSPORTER'S PL	ATE NUMBER
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	NOT APPLICABLE	( 000	000-0000		
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	CLEAN EARTH OF COM 58 NORTH WASHINGTO PLAINVILLE, CT 06062	MAILING ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062			
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, I	HAZARD CLASS, AND ID NUMBER		10. CONTAIN	ERS II. TOTAL (PE QUANTITY	UNIT WT/VOL
a.						
	CONNECTICUT REGULATED WASTE S			001 D	T 00020	Т
Ъ.	Approval: 214071532 G	lobal/Job #:1004865				
0.						
c.						
D,	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E. HANI	DLING CODES FOR	WASTES LISTED ABOVE	
	SOIL CONTAMINATED WITH PETROLE	UM HYDROCARBONS		SO2	T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORM	MATION				
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this co all respects in proper condition for transport by highway according to applie polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, no free liquids at the time of loading.	cable national governmental regulations, and all app	olicable State of Connectic	ut laws and regulation.	I certify that this material is that the material listed above	neither contains we contained no
	JOHN MARSILIO	SIGNATURE	Mais	200	MONTH DAY	YEAR 2/
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATER.				1100	
	HARY SUNCZ	SIGNATURE	15		L 28	2 /
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATER	IALS				
	PRINTED/TYPED NAME	SIGNATURE			MONTH DAY	YEAR
17.	DISCREPANCY INDICATION SPACE	_				
	11(a) CORRECTED WEIGHT AS SCALED 24-2	TON'S				
18.	FACILITY OWNER OR OPERATOR- CERTIFICATION OF RECEIRS O	DE WASTE MATERIALS COVERED BY THE A	AANIEES PEDT AC	NOTED IN ITEM 13		
16.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF PRINTED/TYPED NAME	OF WASTE MATERIALS COVERED BY THIS M SIGNATURE	MANIFESPESCEPTAS	NOTED IN ITEM 13.	MONTH DAY	YEAR Z
	1 1 1 1 1 1 1				0	7

Clean Earth	of Connecticut	Ticket:253	9576				
58 North Wa	shington Street		Date	Time	Scale		
Plainville,	CT 06062	In:06/	28/2021	10:01:42	CECT		
Ph:	Fax:	Out:06/	28/2021	10:01:42	CECT		
			Lbs	. Tns			
Manifest:188	1217	Gross:	83,36	0 41.68			
Vehicle:642	12A	Tare:	30,36	0 15.18			
Decal:		Net:	53,00	0 26.50			
Address:725 FAI	CO LLC n of Fairfield Old Post Road RFIELD, CT 06824	Carrier: Profile #:214071532 Job:Mill Hill Elementary School Address:635 Mill Hill Terrace FAIRFIELD, CT 06824					
Material							
Recyclable soil	rock/material						
Comment:							
Driver		Facility	Clean :	Earth of Cor	necticut		
		Mark Tr	an				



	PECANOPICITI					
L	GENERATOR'S NAME AND MAILING ADDRESS Town of Fairfield 75 Old Post Road		Mill Hi 635 Mil	GENERATOR'S	errace	
	Fairfield CT 06	824	Fairfie		San	825
3.	GENERATOR'S PHONE 203-256-3010 TRANSPORTER I COMPANY NAME	4. US EPA ID NUMBER				
	2000	4. US EPA ID NUMBER	A. TRANSPORTER	I'S PHONE	TRANSPORTER'S PL	ATE NUMBER
	Cisco Environmental, LLC	NOT APPLICABLE	(203	752-2558		
5.	TRANSPORTER 2 COMPANY NAME Lancus Truspust	6. US EPA ID NUMBER	B. TRANSPORTER		TRANSPORTER'S PL	
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS	NOT APPLICABLE	( 000	000-0000	64212	7
	CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF COM 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	C. FACILITY'S (860) 74		
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, H.	AZARD CLASS, AND ID NUMBER		10. CONTAINE	Total Control of Paris	12.
a.			19	NO.   TY	TOTAL QUANTITY	UNIT WT/VOL
d,	CONNECTICUT REGULATED WASTE SO	NID NOVE NOVE				377.302
				001 D	T 00020	Т
b.	Approval: 214071532 G1	o <del>bal/Job #:100486</del> 5		+		
c.						
-						
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E. HANDI	LING CODES FOR W	ASTES LISTED ABOVE	
	SOIL CONTAMINATED WITH PETROLEU	M HYDROCARBONS		SO2	T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMA	TION				
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consist all respects in proper condition for transport by highway according to applicab polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor higher liquids at the time of loading.  PRINTED/TYPED NAME	gnment are fully and accurately described above by t le national governmental regulations, and all appli as been mixed in anyway with PCB's in concentra	he proper shipping name an icable State of Connecticut ations greater than or equal	d are classified, packaged laws and regulation. I to 50 ppm. I certify th	i, marked and labeled/placare certify that this material ne at the material listed above	fed, and are in ither contains contained no
	PRINTED TYPED NAME	SIGNATURE	1	)	MONTH DAY	YEAR
	JOHN WARE, IN		101/	13	1 71	21
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL	S	no se	0	604	2
	PRINTED/TYPED NAME	SIGNATURE			MONTH DAY	YEAR
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME					
	10	SIGNATURE			MONTH DAY	YEAR
	UK	01-			5 08	01
17.	DISCREPANCY INDICATION SPACE					
	11(a) CORRECTED WEIGHT AS SCALED 36.5	TON'S				
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF V	VASTE MATERIALS COVERED BY THIS MA	NIFFST EVCEDT AC AND	OTED IN ITEM 12		
	PRINTED/TYPED NAME	SIGNATURE	EACEFT AS NO	JIED IN I EM 13.	MONTH DAY	YEAR
	NA 1		11/11		^ -	
	11 bick				6 28	21
	11 11	111	ATTO TO		0	0

	of Connecticut	Ticket:253		m '	Caala
	shington Street	Tm • 0.6 /		Time	Scale CECT
Plainville,				10:02:48	
Ph:	Fax:	Out:06/	28/2021	10:02:48	CECT
			Lbs	. Tns	
Manifest:188	1219	Gross:	86,40	0 43.20	
Vehicle:424	52A	Tare:	27,64	0 13.82	
Decal:		Net:		0 29.38	
Customer:CIS	CO LLC	Carrier:			
Generator:Tow	n of Fairfield	Profile #:214	071532		
Address:725	Old Post Road	Job:Mil	l Hill E	Elementary S	chool
FAI	RFIELD, CT 06824	Address:635 Mill Hill Terrace			
		FAI	RFIELD,	CT 06824	
Material					
Recyclable soil/	rock/material				
Comment:					
Driver		Facility	Clean	Earth of Co	nnecticut
		Mark Tr	an		



-	EQAIN SAME					
2.	GENERATOR'S PHONE 203-256-3010	5824	Mill Hil 635 Mill Fairfiel	ll L Hill To		325
3.	TRANSPORTER I COMPANY NAME	4. US EPA ID NUMBER NOT APPLICABLE	A. TRANSPORTER I		TRANSPORTER'S PL	ATE NUMBER
	Cisco Environmental, LLC		B. TRANSPORTER 2	52-2558	16706	
5.		6. US EPA ID NUMBER			TRANSPORTER'S PLA	HE NUMBER
	XXXXXXXXXXXXXXXXXX	NOT APPLICABLE	( 000 0	000-0000		
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF CO 58 NORTH WASHINGT PLAINVILLE, CT 06062	ON STREET	c. facility's (860) 74	17-8888	
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, I	HAZARD CLASS, AND ID NUMBER		10. CONTAINE	TOTAL	12. UNIT
				NO. TY		WT/VOL
a.	CONNECTICUT REGULATED WASTE S		_	001 D	T 00020	Т
b.	Approval: 214071532 G:	lobal/Job #:100486	5			
c,						
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E. HANDI	ING CODES FOR W	VASTES LISTED ABOVE	
100	SOIL CONTAMINATED WITH PETROLE	UM HYDROCARBONS	E. DAVO	INTERIM SO2	FINAL T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORM	MATION				
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this ct all respects in proper condition for transport by highway according to appli polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, no free liquids at the time of loading. PRINTED/TYPED NAME	cable national governmental regulations, and all ap	oplicable State of Connecticut	laws and regulation.	I certify that this material i	either contains
	JOHN MARSILIO	Je le	Mail	20	6 24	21
15.	PRINTED TYPED NAME  S-EMW W	SIGNATUR	E		MONTH DAY	YEAR Z
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATER PRINTED/TYPED NAME	IALS SIGNATUR	E		MONTH DAY	YEAR
17.	DISCREPANCY INDICATION SPACE  11(a) CORRECTED WEIGHT AS SCALED 29.38				•	
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF	OF WASTE MATERIALS COVERED BY THIS SIGNATURE		OTED IN ITEM 13.	MONTH I TO	AZE + D
	PRINTED/TYPED NAME  MOVE	SIGNATUR	The same of the sa		6 28	YEAR 21
			f-th-			

Clean Earth	of Connecticut	Ticket:253	9596		
58 North Wa	shington Street		Date	Time	Scale
Plainville,	CT 06062	In:06/	28/2021	10:08:14	CECT
Ph:	Fax:	Out:06/	28/2021	10:08:14	CECT
			Lbs	. Tns	
Manifest:188	1221	Gross:	79,60	0 39.80	
Vehicle:564	98A	Tare:	27,70	0 13.85	
Decal:		Net:	51,90	0 25.95	
Customer:CISCO LLC Generator:Town of Fairfield Address:725 Old Post Road FAIRFIELD, CT 06824  Carrier: Profile #:214071532 Job:Mill Hill Elementary Scho Address:635 Mill Hill Terrace FAIRFIELD, CT 06824				chool	
Material					
Recyclable soil	/rock/material				
Comment:					
Driver		Facility	Clean	Earth of Cor	nnecticut
		Mark Tr	an		



C	LEANEARIH					
1.	PORTORO FAME ST MEDICA DERESS		Mill Hi	11 GENERATOR'S	SITE ADDRESS	
	75 Old Post Road		635 Mil:	l Hill Te	errace	- 1
	Fairfield CT 068	24	Fairfie:	ld	CT 068	25
	the Suit also that the sale was the Suit		1 122 123			
2.	GENERATOR'S PHONE 203-256-3010 TRANSPORTER I COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER I	'S PHONE	TRANSPORTER'S PLA	ATE NUMBER
3.	A water the contract of the anticontract of the contract of th		( 20,3 *	752-2558	56498	- Δ
	Cisco Environmental, LLC	NOT APPLICABLE	B. TRANSPORTER 2		TRANSPORTER'S PL	
5.	TRANSPORTER 2 COMPANY NAME  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6. US EPA ID NUMBER  NOT APPLICABLE		000-000		TE NUMBER
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF COI 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	(860) 74	17-8888	
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HA	ZARD CLASS, AND ID NUMBER		NO. TY	TOTAL  OUANTITY	UNIT WT/VOL
a.						-
	CONNECTICUT REGULATED WASTE SO Approval: 214071532 G1	LID, NONE, NONE obal/Job #:100486	5	001 D	T 00020	I
ъ.						
C.						
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E. HANI	LING CODES FOR	WASTES LISTED ABOVE	
				INTERIM	FINAL	- 1
	SOIL CONTAMINATED WITH PETROLEU	JM HYDROCARBONS		SO2	T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORM.					
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this cor all respects in proper condition for transport by highway according to applic polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.	ssignment are fully and accurately described above able national governmental regulations, and all a has been mixed in anyway with PCB's in conce	by the proper shipping name pplicable State of Connection intrations greater than or eq	and are classified, packa out laws and regulation ual to 50 ppm. 1 certify	aged, marked and labeled/plas . I certify that this material with the material listed about	earded, and are in neither contains ove contained no
	PRINTED/TYPED NAME	SGNATUE	7 -		MONTH DAY	YEAR
_	T 1 10/10=11=		Inte O.	$\sim$ $\sim$	1. 74	421
	JOHN IVHESLID	ALS THE	and a	<u> </u>	0 0	
15.	TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERI PRINTED/TYPED NAME	SIGNATUL	F		MONTH DAY	YEAR
	James Minicucci	A			6 28	9
		115			Se .	1
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERI PRINTED/TYPED NAME	SIGNATUI	RE		MONTH DAY	YEAR
17.	DISCREPANCY INDICATION SPACE					
	11(a) CORRECTED WEIGHT AS SCALED 25.99	2TON'S				
			A FA STEPPEN DAGGERS	NOTED IN CTEM !	1	
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF PRINTED TYPED NAME	DF WASTE MATERIALS COVERED BY THE SIGNATURE	RE	S NOTED IN ITEM 1.	MONTH DAY	YEAR
	AA \		200	1//		
	11/1 ~~				62	165
	11/0/4		10115		8	

Clean Earth of	Connecticut	Ticket:253	39853					
58 North Washir	ngton Street		Date	Time	Scale			
Plainville, CT	06062	In:06,	/28/2021	11:55:01	CECT			
Ph:	Fax:	Out:06,	/28/2021	11:55:01	CECT			
			Lbs	. Tns	3			
Manifest:1881223	}	Gross:	72,12	0 36.06				
Vehicle:58911A		Tare:	29 <b>,</b> 98	0 14.99	)			
Decal:		Net:	42,14	0 21.07	,			
Customer:CISCO I	·LC	Carrier:						
Generator:Town of	Fairfield	Profile #:214071532						
Address:725 Old Post Road Job:Mill Hill Elementary School					School			
FAIRFIE	LD, CT 06824	Address:635 Mill Hill Terrace						
		FAI	IRFIELD,	CT 06824				
Material								
Recyclable soil/rock/	material							
Comment:								
Driver		Facility	Clean 1	Earth of Co	nnecticut			
		Mark Ti	ran		_			



(	CLEANEARTH	WASIE MANIFE					
1.	THE TOP SAME AS THE LODGESS 75 Old Post Road		Mill Hi	11 <sub>GENERAT</sub>	OR'S SITE	ADDRESS	
		6824	635 Mil		Ter	race	
	203-256-3010	0024	Fairfie	1a	n/:	42019	1254
2.	GENERATOR'S PHONE TRANSPORTER I COMPANY NAME	4. US EPA ID NUMBER	LOME	)au E	<u> </u>	ON ZII	/ )
-	Cisco Environmental, LLC	No. Control and Associated State (Section 2015)	A. MANSPORTER 203	752-25		CO (1)	ATE NUMBER
5.	TRANSPORTER 2 COMPANY NAME	NOT APPLICABLE  6. US EPAID NUMBER	B. TRANSPORTER 2	.0450490		2871	(IN
	TRANSPORTER 2 COMPANY NAME XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	NOT APPLICABLE		000-000		ANSPORTER'S PLA	ATE NUMBER
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS	8. MAILING ADDRESS		C. FACILI	TY'S PHO	NE	
	CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET	CLEAN EARTH OF CO. 58 NORTH WASHINGTO		(860	747-8	8888	
	PLAINVILLE, CT 06062	PLAINVILLE, CT 06062					
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME,	HAZARD CLASS, AND ID NUMBER		10. CONT	AINERS	11.	12.
				NO.	TYPE	TOTAL QUANTITY	UNIT WT/VOL
a.				2000	na inches		
	CONNECTICUT REGULATED WASTES Approval: 214071532 G	OLID, NONE, NONE lobal/Job #:100486!	5	001	DT	00020	Т
b.				+			
c,					_		
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E HAND	LING CODES E	OB WART	ES LISTED ABOVE	
			E. HAND	INTERIN		FINAL	
	SOIL CONTAMINATED WITH PETROLE	UM HYDROCARBONS		SO2		T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORM	MATION					
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this co	uncionment are fully and accurately described above to	the sense display are a	ad ann alassifiad sa	androus Williams	de de editorio de deles	
131	all respects in proper condition for transport by highway according to appli polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, no	cable national governmental regulations, and all and	alicable State of Connection	laws and remile	tion I partil	As that this mutarial as	other contains
	free liquids at the time of loading.  PRINTED/TYPED NAME		transions greater man or equa	г 10 30 ррик 1 се			
-	TRINIED TIPED NAME	SIGNATURE	0	1	2	MONTH DAY	YEAR
	JOHN MARSILIO	- Jan	Maker	)		6 24	21
15.	PRINTED/TYPE NAME	IALS SIGNATURE	-		N	MONTH PAY	YEAR
W	and Inmele	1/1/2	/ /			(1)00	1211
16.	TRANSPORTER 2 ACKNOWED DEMENT OF RECEIPT OF MATER	IALS /	M			0 0	
	PRINTED/TYPED NAME	SIGNATURE			A	MONTH DAY	YEAR
17.	DISCREPANCY INDICATION SPACE						
	11(a) CORRECTED WEIGHT AS SCALED 7	TON'S					
	7						
10	PACILITY ON A PROPERTY OF CORP.						
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF PRINTED/TYPED NAME	OF WASTE MATERIALS COVERED BY THIS N SIGNATURE	MANIFEST EXCEPT AS N	OTED N ITEM		IONTH DAY	YEAR
	MA	1	21/1			100	21
	IVlank		1/1			6 28	de

	of Connecticut	Ticket:254			a 1
	shington Street		Date		
Plainville,	CT 06062	In:06/	28/2021	13:04:34	CECT
Ph:	Fax:	Out:06/	28/2021	13:04:34	CECT
			Lbs	. Tns	
Manifest:188	31215	Gross:	61,04	0 30.52	
Vehicle:642	213A	Tare:	30,06	0 15.03	
Decal:		Net:	30,98	0 15.49	
Customer:CISCO LLC  Generator:Town of Fairfield Address:725 Old Post Road FAIRFIELD, CT 06824  Carrier: Profile #:214071532 Job:Mill Hill Elementary School Address:635 Mill Hill Terrace FAIRFIELD, CT 06824					chool
Material					
Recyclable soil	/rock/material				
Comment:					
Driver		Facility	Clean :	Earth of Cor	necticut
		Nora Eu	vrard		



(	CLEANEARTH	WASTE MANIFE	.51				
1.	Town of Fairfield 75 Old Post Road Fairfield CT 06	824	Mill H: 635 Mil Fairfie	ill ll Hill		The same of the same of	825
3,	GENERATOR'S PHONE 203-256-3010 TRANSPORTER I COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER	I'S PHONE	TF	RANSPORTER'S PI	ATE NUMBER
-	Cisco Environmental, LLC	NOT APPLICABLE	(20)3	752-255	0 6	5421	34
5,	TRANSPORTER 2 COMPANY NAME  TR	6. US EPA ID NUMBER	B. TRANSPORTER			RANSPORTER'S PL	ATE NUMBER
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	NOT APPLICABLE	( 000	000-000	00		
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT	MAILING ADDRESS		C. FACILI	77.079.1	NE	
	58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	CLEAN EARTH OF CON 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	(860	747-8	3888	
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, H.	AZARD CLASS, AND ID NUMBER		10. CONT	AINERS	11. TOTAL	12. UNIT
a.				NO.	TYPE	QUANTITY	WT/VOL
	CONNECTICUT REGULATED WASTE SO			001	DT	00020	Т
Ъ.	Approval: 214071532 G1	obal/Job #:1004865		-			
						2	
c.							
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E. HANI	DLING CODES FO	OR WASTI	ES LISTED ABOVE	
	SOIL CONTAMINATED WITH PETROLEU	JM HYDROCARBONS		SO2	ſ	T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMA	TION					920
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consult respects in proper condition for transport by highway according to applical polychlorinated hiphenyls (PCB's) in concentrations greater than 25 ppm, nor lifter liquids at the time of loading.  PRINTED/TYPED NAME				tion, I certif		
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME  TENRY TENET	LS SIGNATURE	12		N	6 24 6 28	YEAR 2
16.	TRANSPORTER 2 ACKNOW LEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME	SIGNATURE			M	IONTH DAY	YEAR
17.	DISCREPANCY INDICATION SPACE						
	11(a) CORRECTED WEIGHT AS SCALED	TON'S					
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF PRINTED/TYPED NAME	WASTE MATERIALS COVERED BY THIS M.	ANIFEST EXCEPT AS	TED IN ITEM			
	Mark	SIGNATURE			M	6 28	21
			The state of the s			- August	and the same of th

Clean Earth	of Connecticut	Ticket:254	.0079		
58 North Was	shington Street		Date	Time	Scale
Plainville,	CT 06062	In:06/	28/2021	13:27:47	CECT
Ph:	Fax:	Out:06/	28/2021	13:27:47	CECT
			Lbs	. Tns	
Manifest:188	1218	Gross:		0 35.94	
Vehicle:642	12A	Tare:	•	0 15.18	
Decal:		Net:	•	0 20.76	
Customer:CIS	CO LLC	Carrier:			
Generator:Town	n of Fairfield	Profile #:214	071532		
Address:725	Old Post Road	Job:Mil	l Hill E	Clementary So	chool
FAI	RFIELD, CT 06824	Address:635	Mill Hi	ll Terrace	
		FAI	RFIELD,	CT 06824	
Material					
Recyclable soil/	rock/material				
Comment:					
Driver		Facility	Clean :	Earth of Con	necticut
		Nora Eu	vrard		



0	LOANGARIII						
2.	Town of Fairfield 75 Old Post Road Fairfield CT 06824 GENERATOR'S PHONE 203-256-3010			GENERATOR'S SITE ADDRESS  ill  ll Hill Terrace  eld CT 06825			
3.	TRANSPORTER I COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER	I'S PHONE	TRANSPORTER'S PL	ATE NUMBER	
	Cisco Environmental, LLC	NOT APPLICABLE	( 2013	752-2558			
5.	TRANSPORTER 2 COMPANY NAME	6. US EPA ID NUMBER	B. TRANSPORTER		TRANSPORTER'S PL	ATE NUMBER	
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	NOT APPLICABLE	( 000	000-0000	64212.	.4	
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF COM 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	(860) 74			
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, H.	AZARD CLASS, AND ID NUMBER		10. CONTAINE	TOTAL	12. UNIT	
a.				NO. TYF	PE QUANTITY	WT/VOL	
	CONNECTICUT REGULATED WASTE SO	DLID, NONE, NONE		001 DT	00020	Т	
	Approval: 214071532 G1	obal/Job #:1004865	5				
b	William Company of the Party of						
e.							
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		F HAND	LING CODES FOR W	ASTES LISTED ABOVE		
	SOIL CONTAMINATED WITH PETROLEU	JM HYDROCARBONS		SO2	FINAL T57		
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMA	ATION					
					218		
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consult respects in proper condition for transport by highway according to applical polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor if ree liquids at the time of loading.  PRINTED/TYPED NAME				certify that this material n at the material listed above	either contains e contained no	
	Taxa Marilix		Jaisle	,	MONTH DAY	YEAR 7/	
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIA	LS	ausce	<i>u</i>	001	124	
	PRINTED/TYPED NAME	SIGNATURE			MONTH DAY	YEAR	
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME	SIGNATURE			MONTH DAY	YEAR 21	
17.	DISCREPANCY INDICATION SPACE	(//			6 00	01	
h év	11(a) CORRECTED WEIGHT AS SCALED 20.76	TON'S					
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF		ANIFEST EXCEPT AS N	OTED IN ITEM 13.			
	PRINTED/TYPED NAME  Mack	SIGNATURE	Mah	//	MONTH DAY	YEAR 21	
	1100/		100114		0		

Clean Earth	n of Connecticut	Ticket:254	0100		
58 North Wa	ashington Street		Date	Time	Scale
Plainville,	CT 06062	In:06/	28/2021	13:36:42	CECT
Ph:	Fax:	Out:06/	28/2021	13:36:42	CECT
			Lbs	. Tns	
Manifest:188	31220	Gross:		0 31.92	
Vehicle:424	152A	Tare:			
Decal:		Net:			
Address:725	SCO LLC wn of Fairfield 5 Old Post Road IRFIELD, CT 06824	Address:635	l Hill E Mill Hi	Elementary So Il Terrace CT 06824	chool
Material					
Recyclable soil	/rock/material				
Comment:					
Driver		Facility	Clean 1	Earth of Con	necticut
		Nora Eu	vrard		



1881220

1.	Town of Fairfield 75 Old Post Road Fairfield CT 06	5824	635 Mil	ll <sup>GENERATOR'S</sup> l Hill To ld	site ADDRESS errace CT 06	825
3.	TRANSPORTER   COMPANY NAME  Cisco Environmental, LLC	4. US EPA ID NUMBER NOT APPLICABLE	A. TRANSPORTER I	S PHONE 752-2558	TRANSPORTER'S PL	THE NUMBER
5,	TRANSPORTER 2 COMPANY NAME  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6. US EPA ID NUMBER NOT APPLICABLE	B. TRANSPORTER 2	S PHONE 000-0000	TRANSPORTER'S PL	ATE NUMBER
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF COM 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	(860) 74		
9,	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, I	HAZARD CLASS, AND ID NUMBER		10. CONTAINE	TOTAL	12. UNIT WT/VOL
a.	CONNECTICUT REGULATED WASTE SO Approval: 214071532 G1	OLID, NONE, NONE	,	001 D		Т
b.	V.	#.1004000				
Č.						
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE SOIL CONTAMINATED WITH PETROLEU	UM HYDROCARBONS	E. HANDL	ING CODES FOR WA	ASTES LISTED ABOVE FINAL T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMA	ATION				
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this con all respects in proper condition for transport by highway according to applice polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading. PRINTED/TYPED NAME	signment are fully and accurately described above by able national governmental regulations, and all appl has been mixed in anyway with PCB's in concentr	the proper shipping name and icable State of Connecticut ations greater than or equal	are classified, packages laws and regulation. I to 50 ppm. I certify th	I, marked and labeled placar certify that this material na at the material listed above	ded, and are in either contains contained no
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED TYPED NAME		ley de	`	6 24	2/
	Sem Wille	SIGNATURE		=	MONTH DAY	YEAR Z1
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME	SIGNATURE			MONTH DAY	YEAR
17.	DISCREPANCY INDICATION SPACE  11(a) CORRECTED WEIGHT AS SCALED	_TON'S				
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF PRINTED/TYPED NAME  Work	WASTE MATERIALS COVERED BY THIS MATERIALS CO	ANIFEST EXCEPT AS NO	тье ју ітем із.	MONTH DAY	YEAR 21

FACILITY

Clean Earth	of Connecticut	Ticket:254	0105				
58 North Wa	shington Street		Date	Time	Scale		
Plainville,	CT 06062	In:06/	28/2021	13:37:33	CECT		
Ph:	Fax:	Out:06/	28/2021	13:37:33	CECT		
			Lbs	. Tns			
Manifest:188	31222	Gross:	70 <b>,</b> 98	0 35.49			
Vehicle:564	98A	Tare:	27,70	0 13.85			
Decal:		Net:	43,28	0 21.64			
Customer:CIS	CO LLC	Carrier:					
Generator:Tow	n of Fairfield	Profile #:214	071532				
Address:725	Old Post Road	Job:Mill Hill Elementary School					
FAI	RFIELD, CT 06824	Address:635	Mill Hi	ll Terrace			
		FAI	RFIELD,	CT 06824			
Material							
Recyclable soil	/rock/material						
Comment:							
Driver		Facility	Clean :	Earth of Cor	necticut		
		Nora Eu	vrard				



CLEANEARIF							
Town of A Fairfie 75 Old Post Ros Fairfield 203-2		24	Mill Hi 635 Mil Fairfie	l Hill	Terra		25
GENERATOR'S PHONE     TRANSPORTER I COMPANY NAME	4	US EPA ID NUMBER	A. TRANSPORTER I	'S PHONE	TRANS	PORTER'S PLA	TE NUMBER
Cisco Environme	ental, LLC	NOT APPLICABLE	( )	752-255	500	198 A	
5. TRANSPORTER 2 COMPANY NAME  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		NOT APPLICABLE	B. TRANSPORTER 2 000 (	000-000	47.	PORTER'S PLA	TE NUMBER
7. DESIGNATED FACILITY NAME AND CLEAN EARTH OF CON 58 NORTH WASHINGTO PLAINVILLE, CT 06062	NECTICUT	MAILING ADDRESS CLEAN EARTH OF COI 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET		747-8888	3	
US DOT DESCRIPTION (INCLUDING	PROPER SHIPPING NAME, HAZ	ARD CLASS, AND ID NUMBER		10. CONTA		TOTAL DUANTITY	12. UNIT WT/VOL
connecticut regu Approval: 21407	LATED WASTE SOL	ID, NONE, NONE bal/Job #:100486	5	001	DT (	00020	Т
b.							
c.							
D. ADDITIONAL DESCRIPTIONS FOR M	MATERIALS LISTED ABOVE	0 0 185	E. HAND	LING CODES FO	R WASTES LI	STED ABOVE	
SOIL CONTAMINATE	O WITH PETROLEUM	M HYDROCARBONS		SO2		Γ57	
13. SPECIAL HANDLING INSTRUCTION	S AND ADDITIONAL INFORMATI	ION					
		nment are fully and accurately described above b	who scores this size some	nd are obscrifted. ma	ekaaud markad	and Jobeled/placa	reled and are in
all remarks in proper condition for transport	or he highway according to applicable	e national governmental regulations, and all ag s been mixed in anyway with PCB's in conce	unlicable State of Connecticu	it laws and regulati	on. I certify th	at this material naterial listed abov	e contained no
001110	silio	SIGNATUR	Mais	Quo.	MON	DAY 24	YEAR 2
15. TRANSPORTER I ACKNOWLEDGEM PRINTED/TYPED NAME	ENT OF RECEIPT OF MATERIAL	SIGNATUR	E		MON	NTH DAY	YEAR
James Minicu		The second second		>_	6	, 28	य
16. TRANSPORTER 2 ACKNOWLEDGEM PRINTED/TYPED NAME	ENT OF RECEIPT OF MATERIAL	SIGNATUR	E		MON	NTH DAY	YEAR
DISCREPANCY INDICATION SPACE     11(a) CORRECTED WEIGHT AS SO	CALED 21.64	TON'S					
18. FACILITY OWNER OR OPERATOR: C PRINTED/TYPED NAME	Mark Mark	VASTE MATERIALS COVERED BY THIS SIGNATUR		NOTED IN ITE	9 MON	DAY	YEAR 24

Clean Earth o	of Connecticut	Ticket:254	40265				
58 North Wash	nington Street		Date	Time	Scale		
Plainville, (	CT 06062	In:06/	/29/2021	08:51:09	CECT		
Ph:	Fax:	Out:06,	/29/2021	08:51:09	CECT		
			Lbs	. Tns	5		
Manifest:18812	234	Gross:	74,50	0 37.25	5		
Vehicle:64212	2A	Tare:	30,36	0 15.18	3		
Decal:		Net:	44,14	0 22.07	7		
Customer:CISC	) LLC	Carrier:					
Generator:Town	of Fairfield	Profile #:214	4071532				
Address:725 (	Old Post Road	Job:Mill Hill Elementary School					
FAIR	FIELD, CT 06824	Address:635	5 Mill Hi	ll Terrace			
		FAI	IRFIELD,	CT 06824			
Material							
Recyclable soil/ro	ck/material						
Comment:							
Driver		Facility	Clean	Earth of Co	nnecticut		
		Mark Ti	ran		_		



0	CHANGARIN					
2.	Town of Fairfield 75 Old Post Road	824	Mill Hil 635 Mill Fairfiel	l Hill T d	CT 068	325
3.		4. US EPA ID NUMBER	A. TRANSPORTER I'S	SPHONE	TRANSPORTER'S PL	ATE NUMBER
	Cisco Environmental, LLC	NOT APPLICABLE	( 203 7	52-2558		
5,	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6. US EPA ID NUMBER  NOT APPLICABLE	B. TRANSPORTER 2'S	00-0000	TRANSPORTER'S PL	
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF CON 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	C. FACILITY'S (860) 74		
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, H/	AZARD CLASS, AND ID NUMBER		10. CONTAINE	TOTAL	UNIT WT/VOL
a.	CONNECTICUT REGULATED WASTE SO	LID, NONE, NONE		001 D	T 00020	Т
	Approval: 214071532 G1	obal/Job #:1004865				
b.		0241/ 402 #.10040Q	•			
C.						
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E. HANDLI	NG CODES FOR W	ASTES LISTED ABOVE	
	SOIL CONTAMINATED WITH PETROLEU	JM HYDROCARBONS		SO2	T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMA	TION	1			
14,	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this constall respects in proper condition for transport by highway according to applicat polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor here liquids at the time of loading.					
01	DOWN MARSILIO	SIGNATURE	uni O.	`	MONTH DAY	YEAR 21
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME	LS SIGNATURE			MONTH DAY	YEAR
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME	LS	1		MONTH DAY	YEAR
17.	DISCREPANCY INDICATION SPACE	/ /			0 0/	21
	11(a) CORRECTED WEIGHT AS SCALED	TON'S				
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF		ANIFEST EXCEPT AS NO	TED DY ITEM 13.		
	PRINTED/TYPED NAME  Mo	SIGNATURE	2011		MONTH DAY	YEAR
			My	L	8	7

Clean Earth	of Connecticut	Ticket:254	10564		
58 North Wa	shington Street		Date	Time	Scale
Plainville,	CT 06062	In:06/	29/2021	09:01:43	CECT
Ph:	Fax:	Out:06/	29/2021	09:01:43	CECT
			Lbs	. Tns	
Manifest:188	1233	Gross:	76,14	0 38.07	
Vehicle:564	98A	Tare:	27,70	0 13.85	
Decal:		Net:	48,44	0 24.22	
Address:725 FAI	CO LLC n of Fairfield Old Post Road RFIELD, CT 06824	Address:635	l Hill E Mill Hi	Clementary S CI Terrace	chool
Material	/vo al / /vo at a vi al				
Recyclable soil/	rock/material				
		D1114	01		
Driver		facility Mark Tr		Earth of Cor	mecticut
		Mark II	all		



6	LCARCARIT					
1.	GENERATOR'S PHONE 203-256-3010	824	Mill Hil 635 Mill Fairfiel	l Hill T ld	errace	825
3.	Cisco Environmental, LLC	4. US EPA ID NUMBER  NOT APPLICABLE	( 203 7	S PHONE 752-2558	56496-	
5.	TRANSPORTER 2 COMPANY NAME  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6. US EPAID NUMBER  NOT APPLICABLE	B. TRANSPORTER 2'	S PHONE 000-0000	TRANSPORTER'S PL	ATE NUMBER
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF CO 58 NORTH WASHINGT PLAINVILLE, CT 06062	ON STREET	(860) 74		
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, H.	AZARD CLASS, AND ID NUMBER		10. CONTAINI	ERS 11. TOTAL TOTAL QUANTITY	12. UNIT WT/VOL
a.	CONNECTICUT REGULATED WASTE SO Approval: 214071532 G1	oLID, NONE, NONE obal/Job #:100486	5	001 D	T 00020	Т
b.						
c.						
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE SOIL CONTAMINATED WITH PETROLEU	JM HYDROCARBONS	E. HANDL	ING CODES FOR V INTERIM SO2	WASTES LISTED ABOVE FINAL T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMA	CTION	'			
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consult respects in proper condition for transport by highway according to applica polyelulorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.  PRINTED/TYPED NAME	ble national governmental regulations, and all ap	plicable State of Connecticut strations greater than or equal	laws and regulation.	I certify that this material i	neither contains
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME  Ones Minicocci,	LS SIGNATURE			MONTH DAY	YEAR
16,	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME	SIGNATURE	2		MONTH DAY	YEAR
17.	DISCREPANCY INDICATION SPACE  11(a) CORRECTED WEIGHT AS SCALED  24,22	TON'S				
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF PRINTED/TYPED NAME	WASTE MATERIALS COVERED BY THIS I SIGNATURE	MANIFEST EXCEPT AS N	OTED IN TEM 13.	6 29	HEAR HEAR

Clean Earth	n of Connecticut	Ticket:254	40848					
58 North Wa	ashington Street		Date	Time	Scale			
Plainville	CT 06062	In:06/	/29/2021	11:40:30	CECT			
Ph:	Fax:	Out:06/	/29/2021	11:40:30	CECT			
			Lbs	. Tns	5			
Manifest:188	31232	Gross:	89,40	0 44.70	)			
Vehicle:642	212A	Tare:	30,36	0 15.18	3			
Decal:		Net:	59 <b>,</b> 04	0 29.52	2			
Customer:CIS	SCO LLC	Carrier:						
Generator:To	vn of Fairfield	Profile #:214071532						
Address:725	Old Post Road	Job:Mill Hill Elementary School						
FAI	IRFIELD, CT 06824	Address:635	5 Mill Hi	ll Terrace				
		FA]	IRFIELD,	CT 06824				
Material								
Recyclable soi	/rock/material							
Comment:								
Driver		Facility	Clean	Earth of Co	nnecticut			
		Mark Tr	ran					



-	FOMINOMICITI					
1.	GENERATOR'S PHONE 203-256-3010	5824	Mill Hi 635 Mil Fairfie	ll <sup>GENERATOR'S</sup> l Hill T ld	errace	B25
3.	TRANSPORTER I COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER I	'S PHONE	TRANSPORTER'S PL	ATE NUMBER
	Cisco Environmental, LLC	NOT APPLICABLE	( 293 '	752-2558	Tyre .	
5.	TRANSPORTER 2 COMPANY NAME LANDUM	6. US EPA ID NUMBER  NOT APPLICABLE	B. TRANSPORTER 2	000-0000	69912	
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF CO 58 NORTH WASHINGT PLAINVILLE, CT 06062	ON STREET	C. FACILITY'S (860) 74	17-8888	
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, I	HAZARD CLASS, AND ID NUMBER		NO. TY	TOTAL	12. UNIT WT/VOL
а.	CONNECTICUT REGULATED WASTE S Approval: 214071532 G:	OLID, NONE, NONE lobal/Job #:100486	5	001 D	T 00020	Т
b.					83	
C,						
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE SOIL CONTAMINATED WITH PETROLE	EUM HYDROCARBONS	E. HANDI	ING CODES FOR V INTERIM SO2	vastes listed above final T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORM	MATION				
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this ce all respects in proper condition for transport by highway according to appli polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, no free liquids at the time of loading.  PRINTED/TYPED NAME	icable national governmental regulations, and all ap	oplicable State of Connecticut	laws and regulation.	I certify that this material i	neither contains
	JOHN 1. MAKSI 10	- Ju	will		6 24	12/
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATER PRINTED/TYPED NAME	SIGNATUR	E		MONTH DAY	YEAR
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATER PRINTED/TYPED NAME	JALS SIGNATUR	E		6 29	YEAR Q
17.	DISCREPANCY INDICATION SPACE  11(a) CORRECTED WEIGHT AS SCALED 29.57	TON'S				
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT (			OTED IN ITEM 13.		
	PRINTED/TYPED NAME  May	SIGNATURI	2/		6 29	2 2j

Clean Earth of	Connecticut	Ticket:254	10907					
58 North Washi	ngton Street		Date	Time	Scale			
Plainville, Cl	06062	In:06/	/29/2021	12:05:00	CECT			
Ph:	Fax:	Out:06/	/29/2021	12:05:00	CECT			
			Lbs	. Tn:	S			
Manifest:188122	29	Gross:	68,96	0 34.4	8			
Vehicle:564987	A	Tare:	27 <b>,</b> 70	0 13.8	5			
Decal:		Net:	41,26	0 20.6	3			
Customer:CISCO	LLC	Carrier:						
Generator:Town o	of Fairfield	Profile #:214071532						
Address:725 Ol	d Post Road	Job:Mill Hill Elementary School						
FAIRF	ELD, CT 06824	Address:635	Mill Hi	lll Terrace	:			
		FAI	RFIELD,	CT 06824				
Material								
Recyclable soil/roc	k/material							
Comment:								
Driver		Facility	Clean	Earth of Co	onnecticut			
		Mark Tr	ran		_			



	JECAN CARITI					
2.	GENERATOR'S NAME AND MAILING ADDRESS TOWN OF FAIRFIELD 75 Old Post Road Fairfield CT 068 GENERATOR'S PHONE 203-256-3010 TRANSPORTER I COMPANY NAME	B24	635 Mil Fairfie		errace CT 06	825
3.		4. US EPA ID NUMBER	A. TRANSPORTER I	'S PHONE	TRANSPORTER'S PL	ATE NUMBER
	Cisco Environmental, LLC	NOT APPLICABLE	( 203 7	752-2558	36448	A
5.	TRANSPORTER 2 COMPANY NAME  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6. US EPA ID NUMBER  NOT APPLICABLE	B. TRANSPORTER 2	S PHONE 0000	TRANSPORTER'S PL	ATE NUMBER
7,	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF COM 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	C. FACILITY'S (860) 74		
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HA	AZARD CLASS, AND ID NUMBER		NO. TY	ERS 11. TOTAL OUANTITY	12. UNIT WT/VOL
a.	CONNECTICUT REGULATED WASTE SO	LID, NONE, NONE		001 D		Т
		obal/Job #:1004865				
ь.		DB1/00D #.1004065	)		_	
c.						
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE	7	E. HANDL	ING CODES FOR W	VASTES LISTED ABOVE	
	SOIL CONTAMINATED WITH PETROLEU	M HYDROCARBONS		SO2	FINAL T57	
13,	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMA	TION	,			
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consi all respects in proper condition for transport by highway according to applicab polychlorinated biphenyls (PCIS's) in concentrations greater than 25 ppm, nor here liquids at the time of loading.  PRINTED/TYPED NAME					
15.	PRINTED TYPED NAME  Winited CCI	SIGNATURE			MONTH DAY	YEAR 7/
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME	SIGNATURE			MONTH DAY	YEAR
17.	DISCREPANCY INDICATION SPACE					
.,.	11(a) CORRECTED WEIGHT AS SCALED 20.63	ron's				
18,	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF	WASTE MATERIALS COVERED BY THIS M	ANIFEST EXCEPT AS NO	OTED IN ITEM 13.		
	PRINTED/TYPED NAME  Mark	SIGNATULE			6 29	F 2

Clean Earth	n of Connecticut	Ticket:254	41200				
58 North Wa	ashington Street		Date	Time	Scale		
Plainville,	CT 06062	In:06,	/29/2021	14:39:25	CECT		
Ph:	Fax:	Out:06,	/29/2021	14:39:25	CECT		
			Lbs	. Tns	3		
Manifest:188	31231	Gross:	78 <b>,</b> 16	0 39.08	}		
Vehicle:642	212A	Tare:	30,36	0 15.18	}		
Decal:		Net:	47,80	0 23.90	)		
Customer:CIS	SCO LLC	Carrier:					
Generator:Tow	vn of Fairfield	Profile #:214	4071532				
Address:725	Old Post Road	Job:Mill Hill Elementary School					
FA]	IRFIELD, CT 06824	Address:635	5 Mill Hi	ll Terrace			
		FAI	IRFIELD,	CT 06824			
Material							
Recyclable soil	/rock/material						
Comment:							
Driver		Facility	Clean	Earth of Co	nnecticut		
		Mark Ti	ran				



6	LEANEARTH	WASTE MAINTE	201			
1.	GENERATOR'S NAME AND MAILING ADDRESS TOWN OF FAIRFIELD 75 Old Post Road Fairfield CT 068 GENERATOR'S PHONE 203-256-3010	24	Mill Hi 635 Mil Fairfie	Hill To	errace	825
3.		4. US EPA ID NUMBER	A. TRANSPORTER I	S PHONE	TRANSPORTER'S PLA	ATE NUMBER
	Cisco Environmental, LLC	NOT APPLICABLE	( 203 7	52-2558		
5.	1002110	6. US EPA ID NUMBER	B. TRANSPORTER 2		TRANSPORTER'S PL	ATE NUMBER
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	NOT APPLICABLE	( 090 0	00-0000	64212	-13
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF COI 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	C. FACILITY'S (860) 74		
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZ	ZARD CLASS, AND ID NUMBER		NO. TYPE	TOTAL	12. UNIT WT/VOL
a,	CONNECTICUT REGULATED WASTE SOI	LID. NONE. NONE		001 D	00020	Т
	Approval: 214071532 Glo		5			
b.		# 100400.				
c.						
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E. HANDL	ING CODES FOR W	ASTES LISTED ABOVE	
	SOIL CONTAMINATED WITH PETROLEUR	M HYDROCARBONS		SO2	T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMAT	ION				
14,	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consig all respects in proper condition for transport by highway according to applicable polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor ha free liquids at the time of loading.	e national governmental regulations, and all app	plicable State of Connecticut	laws and regulation. I	certify that this material n	either contains
	JOHN MADEILIA	SIGNATUR	1 in On	`	MONTH DAY	YEAR
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME		( ) our		I and the second second	1
	TAINTED/TTEED/NAME	SIGNATURE			MONTH DAY	YEAR
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME	SIGNATURE			MONTH DAY	YEAR
	OR	$\mathcal{M}$			6 29	21
17.	DISCREPANCY INDICATION SPACE	0,0				
	239	TON'S				
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF V			TEDIN ITEM 13.	Transparent Control	
	PRINTED/TYPED NAME	SIGNATURE	2011	/	MONTH DAY	YEAR
	VVank		lake	-	64	21

Clean Earth	of Connecticut	Ticket:254	1231		
58 North Wa	shington Street		Date	Time	Scale
Plainville,	CT 06062	In:06/	29/2021	14:54:07	CECT
Ph:	Fax:	Out:06/	29/2021	14:54:07	CECT
			Lbs	. Tns	
Manifest:188	1230	Gross:	72,90	0 36.45	
Vehicle:564	98A	Tare:	27,70	0 13.85	
Decal:		Net:	45,20	0 22.60	
Address:725 FAI	CO LLC n of Fairfield Old Post Road RFIELD, CT 06824	Address:635	l Hill E Mill Hi	Elementary S .ll Terrace CT 06824	chool
Material					
Recyclable soil	/rock/material				
Comment:					
Driver		Facility	Clean	Earth of Cor	nnecticut
		Mark Tr	an		_



OLCANCARI	8 8					
<ol> <li>GENERATOR'S NAME AND MAI</li> </ol>	ILING ADDRESS			GENERATOR'	S SITE ADDRESS	
Town of Fairf 75 Old Post R	oad		Participant of the Control of the Co	ll Hill T	Company of the Company of the Company	
Fairfield 2. GENERATOR'S PHONE 202	CT 068	324	Fairfie	eld	CT 06	825
3. TRANSPORTER I COMPARA COMPA	MEZ 30-3010	4. US EPA ID NUMBER	A. TRANSPORTER	1'S PHONE	TRANSPORTER'S PI	ATE NUMBER
Cisco Environ 5. TRANSPORTER 2 COMPANY NA	mental, LLC	NOT APPLICABLE  6. US EPA ID NUMBER	( 203 B. TRANSPORTER	752-2558 2'S PHONE	56498 TRANSPORTER'S PL	-A
xxxxxxxxxxx		NOT APPLICABLE	( 000	000-0000		
7. DESIGNATED FACILITY NAME A CLEAN EARTH OF CO 58 NORTH WASHING T PLAINVILLE, CT 0606	ONNECTICUT FON STREET 2	8. MAILING ADDRESS CLEAN EARTH OF CON 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	(860) 7	s phone 47-8888	
US DOT DESCRIPTION (INCLUD	ING PROPER SHIPPING NAME, HAZ	ZARD CLASS, AND ID NUMBER		10. CONTAIN	ERS 11. TOTAL YPE QUANTITY	UNIT WT/VOL
a.  CONNECTICUT REC	GULATED WASTE SOI	LID, NONE, NONE			OT 00020	Т
b. Approval: 214	071532 Glo	bal/Job #:1004865	;			
c.						
D. ADDITIONAL DESCRIPTIONS FO	R MATERIALS LISTED ABOVE		E. HANE	DLING CODES FOR	WASTES LISTED ABOVE	
SOIL CONTAMINAT	ED WITH PETROLEU	M HYDROCARBONS		SO2	FINAL T57	
13. SPECIAL HANDLING INSTRUCTION	ONS AND ADDITIONAL INFORMAT	TION				
all respects in proper condition for tran	sport by highway according to applicable	griment are fully and accurately described above by e national governmental regulations, and all app is been mixed in anyway with PCB's in concent	licable State of Connection	of latter and equiplation	I nastific that this metasial	monitor and activities in
15. TRANSPORTER I ACKNOWLEDGE	EMENT OF RECEIPT OF MATERIAL	s Jag III	under	>	624	2/
PRINTED/TYPED NAME	CVCCI .	SIGNATURE		$\rightarrow$	MONTH DAY	YEAR
	EMENT OF RECEIPT OF MATERIAL	SIGNATURE			MONTH DAY	YEAR
17. DISCREPANCY INDICATION SPACE	E 00/					
11(a) CORRECTED WEIGHT AS	SCALED 22.6	TON'S				
	-					
<ol> <li>FACILITY OWNER OR OPERATOR: PRINTED/TYPED NAME</li> </ol>	CERTIFICATION OF RECEIPT OF W	VASTE MATERIALS COVERED BY THIS M SIGNATURE	ANIFEST EXCEPT AS N	NOTED IN ITEM 13.	MONTH DAY	YEAR
	Mark	John Miles			6 29	21

Clean Earth o	of Connecticut	Ticket:254	41213		
58 North Wash	nington Street		Date	Time	Scale
Plainville, (	CT 06062	In:06/	/30/2021	09:28:48	CECT
Ph:	Fax:	Out:06/	/30/2021	09:28:48	CECT
			Lbs	. Tns	5
Manifest:18812	226	Gross:	78,34	0 39.1	7
Vehicle:64212	2A	Tare:	30,36	0 15.18	3
Decal:		Net:	47 <b>,</b> 98	0 23.99	9
Customer:CISCO	) LLC	Carrier:			
Generator:Town	of Fairfield	Profile #:214	4071532		
Address:725 (	Old Post Road	Job:Mil	ll Hill E	Elementary	School
FAIR	FIELD, CT 06824	Address:635	5 Mill Hi	ll Terrace	
		FAI	IRFIELD,	CT 06824	
Material					
Recyclable soil/ro	ck/material				
Comment:					
Driver		Facility	Clean	Earth of Co	onnecticut
		Mark Tr	ran		



OLCANGARIN						
1. GENERATOR'S NAME AND MAILING ADDRESS TOWN OF Fairfield 75 Old Post Road Fairfield CT 0: 2. GENERATOR'S PHONE 3. TRANSPORTER I COMPARATOR'S 256 3010	6824	Mill H: 635 Mil Fairfie	ill ll Hill		7.00	825
3. TRANSPORTER I COMPANY NYME 30 3010	4. US EPA ID NUMBER	A. TRANSPORTER	I'S PHONE	1	TRANSPORTER'S PL	ATE NUMBER
Ciasa Farriga	NOT APPLICABLE	7 1				
Cisco Environmental, LLC 5 TRANSPORTER 2 COMPANY NAME.	6. US EPA ID NUMBER	203	752-25!	58		
Lander	3.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5	B. TRANSPORTER	2'S PHONE	1	RANSPORTER'S PL	ATE NUMBER
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	NOT APPLICABLE	( 000	000-000	nn	6426	1. A
7. DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF COI 58 NORTH WASHINGTO PLAINVILLE, CT 06062	NNECTICUT ON STREET	C. FACILI		ONE	,
<ol> <li>US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME,</li> </ol>	HAZARD CLASS, AND ID NUMBER		10. CONT.	AINERS	11.	12.
			NO.	TVDE	TOTAL	UNIT
a.			NO.	TYPE	QUANTITY	WT/VOL
CONNECTICUT REGULATED WASTE S	OLID, NONE, NONE		001	DT	00020	Т
b. Approval: 214071532 G	lobal (Joh #-10040C					
b. 119920val. 2140/1332 G.	10081/000 #:1004865					
C.						
D. ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE						
SHE STATE DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E. HAND	LING CODES FO	OR WAST	ES LISTED ABOVE	
SOIL CONTAMINATED WITH PETROLE	UM HYDROCARBONS		SO2		T57	
13. SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORM	ATION					
14. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this con all respects in proper condition for transport by highway according to applie polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.  PRINTED/TYPED NAME  15. TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME	has been mixed in anyway with PCB's in concentr	the proper shipping name as cable State of Connecticutations greater than or equa	nd are classified, pac laws and regulati I to 50 ppm. I cen	on. I certi	MONTH DAY	eed, and are in ither contains contained no YEAR
	SIGNATURE			N	MONTH DAY	YEAR
16. TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA						
PRINTED/TYPED NAME	SIGNATURE			N	6 30	YEAR
17. DISCREPANCY INDICATION SPACE Q3 44	1			(	0 30	21
11(a) CORRECTED WEIGHT AS SCALED 2. 1  18. FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF PRINTED/TYPED NAME	WASTE MATERIALS COVERED BY THIS MASIGNATURE	NIFEST EXCEPT AS NO	OTED IN ITEM I.		IONTH DAY	YEAR
Mark	11/1/10			1	6 30	24 24

Clean Earth	of Connecticut	Ticket:2541	1659		
58 North Wa	shington Street		Date	Time	Scale
Plainville,	CT 06062	In:06/3	30/2021	09:30:18	CECT
Ph:	Fax:	Out:06/3	30/2021	09:30:18	CECT
			Lbs	. Tns	
Manifest:188	1225	Gross:	73,04	0 36.52	
Vehicle:597	55A	Tare:	27 <b>,</b> 24	0 13.62	
Decal:		Net:	45,80	0 22.90	
Address:725	CO LLC n of Fairfield Old Post Road RFIELD, CT 06824	Address:635	l Hill E Mill Hi	Elementary So Ill Terrace CT 06824	chool
Recyclable soil	/rock/material				
Comment:					
Driver		Facility	Clean :	Earth of Con	necticut
		Mark Tra	an		_



0	CANCARIN					
I,	GENERATOR'S NAME AND MAILING ADDRESS Town of Fairfield 75 Old Post Road		Mill Hi: 635 Mil:	GENERATOR'S 11 L Hill Te	SITE ADDRESS	
		324	Fairfiel	Ld	CT 06	B25
3.	GENERATOR'S PHONE 203-256-3010 TRANSPORTER I COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER I	S PHONE I	TRANSPORTER'S PL	ATE MUMBED
1,755	9249 1954 B1		A STATE OF THE PARTY OF THE PAR	51.110.19.5	TG25	A
5.	Cisco Environmental, LLC TRANSPORTER 2 COMPANY NAME	NOT APPLICABLE  6. US EPA ID NUMBER		52-2558	7 1/23	TH
			B. TRANSPORTER 2"	SPHONE	TRANSPORTER'S PL	ATE NUMBER
7.	XXXXXXXXXXXXXXXXXX	NOT APPLICABLE	( 000 0	000-000		
	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF CON 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	(860) 74		
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HA	ZARD CLASS, AND ID NUMBER		10. CONTAINE	RS 11. TOTAL	12. UNIT
a.				NO. TY	PE QUANTITY	WT/VOL
	CONNECTICUT REGULATED WASTE SO	LID, NONE, NONE		001 D	T 00020	T
b.	Approval: 214071532 G1	obal/Job #:1004865	)			
Aca.						
c.						
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E. HANDL	ING CODES FOR W	ASTES LISTED ABOVE	
	SOIL CONTAMINATED WITH PETROLEU	N ( HIVDDOG A DDONG		INTERIM	FINAL	
	SOIL CONTAMINATED WITH PETROLEC	MHYDROCARBONS		SO2	T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMA	TION				
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consi	ignment are fully and accurately described shows by	the proper shipping same and	I are observed an above		
	all respects in proper condition for transport by highway according to applicat polychlorinated hiphenyls (PCB's) in concentrations greater than 25 ppm, nor lifee liquids at the time of loading.  PRINTED/TYPED NAME	ole national envernmental regulations and all age	lisukla State of Connactious	lang and completion I	certify that this material r hat the material listed abov	either contains e contained no
	To Maril.		11 -	7 ~	MONTH DAY	YEAR
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIA	IS PEC	Vals La	0	6 24	</td
	PRINTED/TYPED NAME	SUNTURE	101		MONTH DAY	YEAR
	Dank Amon	2 au	w An	el1	6 30	21
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL	LS			170	/ 1
	PRINTED/TYPED NAME	SIGNATURE			MONTH DAY	YEAR
17.	DISCREPANCY INDICATION SPACE					
	11(a) CORRECTED WEIGHT AS SCALED	TON'S				- 1
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF	WASTE MATERIALS COVERED BY THIS Y	ANDESTAURENT	VEED IN PERCENT		
	PRINTED/TYPED NAME	SIGNATURE	AND ESTEXCEPT AS NO	HED IN HEM 13.	MONTH DAY	YEAR
	10	27/			180	21
	Werk	1/1/			6 26	4

Clean Earth	of Connecticut	Ticket:254	1666		
58 North Wa	shington Street		Date	Time	Scale
Plainville,	CT 06062	In:06/	30/2021	09:31:17	CECT
Ph:	Fax:	Out:06/	30/2021	09:31:17	CECT
			Lbs	. Tns	
Manifest:188	1227	Gross:	68,82	0 34.41	
Vehicle:564	98A	Tare:	27,70	0 13.85	
Decal:		Net:	41,12	0 20.56	
Address:725	CO LLC n of Fairfield Old Post Road RFIELD, CT 06824	Address:635	l Hill E Mill Hi	Elementary S 11 Terrace CT 06824	chool
Recyclable soil	/rock/material				
Comment:	TOCKITIALETIAI				
Driver		Facility	Clean	Earth of Co	nnecticut
		Mark Tr	an		



6	LUANUAKIN						
1,	GENERATOR'S NAME AND MAILING ADDRESS Town of Fairfield 75 Old Post Road Fairfield CT 068 GENERATOR'S PHONE 203-256-2010	824	Mill Hi 635 Mil Fairfie	ll 1 Hill		race CT 068	325
3.	TRANSPORTER I COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER I	'S PHONE	17	TRANSPORTER'S PL	ATE MUNIDER
		NOTIFICATION	The second secon	D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		THE STATE OF THE	A
5.	Cisco Environmental, LLC	NOT APPLICABLE	(203	752-255	18	264 48-	K
1975	TRANSFORTER 2 COMPANY NAME	6. US EPA ID NUMBER	B. TRANSPORTER 2	'S PHONE	T	RANSPORTER'S PL/	ATE NUMBER
	XXXXXXXXXXXXXXXXXXX	NOT APPLICABLE	( 000 0	000-000	in		
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS	8. MAILING ADDRESS		C. FACILIT	-	ONE	
	CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	CLEAN EARTH OF COM 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	(860)			
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HA	AZARD CLASS, AND ID NUMBER		10. CONTA	AINERS	11,	12.
a.				NO.	TYPE	TOTAL QUANTITY	UNIT WT/VOL
u.							
	CONNECTICUT REGULATED WASTE SO	LID, NONE, NONE		001	DT	00020	Т
	Approval: 214071532 C16	obal/Job #:1004868					
Ь.	11	2001/000 #.1004063	)				
c.							
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE					1 1	
13.	SOIL CONTAMINATED WITH PETROLEU  SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION AND ADDITIONAL INFORMATIONAL INFORMATION AND ADDITIONAL INFORMATION AND ADDITIONAL INFORMATIONAL INFORMATION AND ADDITIONAL INFORMATION AND ADDITIO			SO2		T57	
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consist all respects in proper condition for transport by highway according to applicable	emment are fully and accurately described above by	the proper shinging pages and	and the life of			
	all respects in proper condition for transport by highway according to applicable polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor higher liquids at the time of loading.  PRINTEDTYPED NAME	le national governmental regulations, and all appl as been mixed in anyway with PCB's in concentr	icable State of Connecticut ations greater than or equal	laws and regulation to 50 ppm. I certification in the second certification in the seco	kaged, me on. I certi ify that th	arked and labeled/placard ify that this material nei he material listed above	ed, and are in ther contains contained no
,	JOHN MARSILIO	De M	unles		1	MONTH DAY	YEAR
	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED TYPED NAME.	SIGNATURE					-
1.	- 405 WA 1	SIGNATURE			1	MONTH DAY	YEAR
u	ames Minicucci	19				6 30	21
	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME	11					7
	/	SIGNATURE			N	MONTH DAY	YEAR
17.	DISCREPANCY INDICATION SPACE						
	11(a) CORRECTED WEIGHT AS SCALED 20.56	TON'S	1				
18. 1	ACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF W	VASTE MATERIALS COVERED BY THIS MA	ANIFEST EXPEDIAS NO	TED IN ITEM 1	3		
I	PRINTED/TYPED NAME  MOJOK	SIGNATURE				100 DAY	YEAR 24
	1100	1				0	9

Clean Earth of Connecticut	Ticket:2542012
58 North Washington Street	Date Time Scale
Plainville, CT 06062	In:06/30/2021 12:20:58 CECT
Ph: Fax:	Out:06/30/2021 12:20:58 CECT
	Lbs. Tns
Manifest:1881228	Gross: 76,480 38.24
Vehicle:64212A	Tare: 30,360 15.18
Decal:	Net: 46,120 23.06
Customer:CISCO LLC	Carrier:
Generator:Town of Fairfield	Profile #:214071532
Address:725 Old Post Road	Job:Mill Hill Elementary School
FAIRFIELD, CT 06824	Address:635 Mill Hill Terrace
	FAIRFIELD, CT 06824
Material	
Recyclable soil/rock/material	
Comment:	
Driver	FacilityClean Earth of Connecticut
	Sondra Zak



	LCANGARIN					
1.	GENERATOR'S NAME AND MAILING ADDRESS Town of Fairfield 75 Old Post Road		Mill Hi	11	S SITE ADDRESS	
	Fairfield CT 068	224	The same of the sa	l Hill T		005
2.	GENERATOR'S PHONE 203-256-3010	721	Fairfie:	Id	CT 06	825
3.	TRANSPORTER I COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER 1	'S PHONE	TRANSPORTER'S PL	ATE NUMBER
	Cisco Environmental, LLC	NOT APPLICABLE	( 203 7	752-2558		
5.	TRANSPORTER 2 COMPANY NAME Landy	6. US EPA ID NUMBER	B. TRANSPORTER 2	AND THE PERSON NAMED IN COLUMN 1	TRANSPORTER'S PL	ATE NUMBER
	XXXXXXXXXXXXXXXXX	NOT APPLICABLE	( 00,0 0	0000-0000	64210	-17
7,	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF CON 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	(860) 74		
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HA	ZARD CLASS, AND ID NUMBER		10. CONTAINI	TOTAL	12. UNIT WT/VOL
a.,				110. 11	TE QUARTIT	WI/VOL
	CONNECTICUT REGULATED WASTE SO	LID, NONE, NONE		001 D	T 00020	Т
	Approval: 214071532 Glo	obal/Job #:1004865	j			
b.						
c.	5					
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E HANDI	ING CODES FOR W	ASTES LISTED ABOVE	
			L. Halle	INTERIM	FINAL	
	SOIL CONTAMINATED WITH PETROLEU	M HYDROCARBONS		SO2	T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION AND ADDITIONAL INF	TION			21.480	
					16700	
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consi, all respects in proper condition for transport by highway according to applicab	de marcanal accompanies laconatamental and all and	London Course of Property	Various was all and an American	the complete of the complete o	Nowak at the Park Office 181
	polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor h free liquids at the time of loading.	as been mixed in anyway with PCB's in concent	rations greater than or equal	to 50 ppm. I certify	that the material listed above	e contained no
	PRINTED/TYPED NAME	MGNATURE	11, -1	7 -	MONTH DAY	YEAR
	JOHN MARSILIO	Tu	Manle	0	624	2/
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME	SIGNATURE			MONTH DAY	YEAR
		, sometime			MONTH	IEAR
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL	S				
	PRINTED/TYPED NAME	SIGNATURE	Li		MONTH DAY	YEAR
	OK	0			6 50	21
17.	DISCREPANCY INDICATION SPACE	V				
	11(a) CORRECTED WEIGHT AS SCALED 3.09	TON'S				
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF	WASTE MATERIALS COVERED BY THIS M	ANIFEST EXCEPT AS NO	OTED IN ITEM 13.		
	PRINTED/TYPED NAME	SIGNATURE			MONTH DAY	YEAR
	C Bal	, 2)ac	1		630	2/

Ticket:2542041		
Da	te 1	Time Scale
In:06/30/20	21 12:39	:52 CECT
Out:06/30/20	21 12:39	:52 CECT
	Lbs.	Tns
Gross: 76	,660	38.33
Tare: 27	,240	13.62
Net: 49	,420	24.71
Carrier:		
Profile #:21407153	2	
Job:Mill Hil	l Element	cary School
Address:635 Mill	Hill Ter	rrace
FAIRFIEI	D, CT 068	324
Facility Cle	an Earth	of Connecticut
Mark Tran		
	In:06/30/20 Out:06/30/20 Out:06/30/20  Gross: 76 Tare: 27 Net: 49 Carrier: Profile #:21407153 Job:Mill Hil Address:635 Mill FAIRFIEL  Facility Clea	Date In:06/30/2021 12:39 Out:06/30/2021 12:39  Lbs.  Gross: 76,660 Tare: 27,240 Net: 49,420  Carrier: Profile #:214071532 Job:Mill Hill Element Address:635 Mill Hill Ter FAIRFIELD, CT 068



CLEANEARIH	WASTEMANITE	751			
L. GENERATOR'S NAME AND MAILING ADDRESS Town of Fairfield	24	Mill Hi	GENERATOR'	S SITE ADDRESS	
	75 Old Post Road			Santana and a santana	
	6824		l Hill 7		
2. GENERATOR'S PHONE 203-256-3010	0024	Fairfie	i I d	CT 06	825
TRANSPORTER   COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER	I'S PHONE	TRANSPORTER'S PL	ATE NUMBER
Cisco Environmental, LLC	NOT APPLICABLE	( 203	752-2558	59753	-4
5. TRANSPORTER 2 COMPANY NAME	US EPA ID NUMBER	B. TRANSPORTER	2'S PHONE	TRANSPORTER'S PL	ATE NUMBER
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	NOT APPLICABLE	( 000	000-0000		
7. DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT	8. MAILING ADDRESS		C. FACILITY	S PHONE	
58 NORTH WASHINGTON STREET	CLEAN EARTH OF COM 58 NORTH WASHINGTO		(860) 7	47-8888	
PLAINVILLE, CT 06062	PLAINVILLE, CT 06062				
9. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME,			10. CONTAIN	ERS   IL	12.
			1	TOTAL	UNIT
a.			180. 11	YPE QUANTITY	WT/VOL
CONNECTICUT REGULATED WASTES	OLID, NONE, NONE		001 D	T 00020	Т
Approval: 214071532 G	]_b_1/]_b #_100105				
b.	lobal/Job #:1004869	-			
			1		
c.					
D. ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E. HAND	LING CODES FOR V	VASTES LISTED ABOVE	
SOIL CONTAMINATED WITH BETPOLE	TIMELINGBOOK		INTERIM	FINAL	
SOIL CONTAMINATED WITH PETROLE	UM HYDROCARBONS		SO2	T57	
13. SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORM	MATION				
14. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this co					
all respects in proper condition for transport by highway according to applie					
polychlorinated hiphenyls (PCB's) in concentrations greater than 25 ppm, no free liquids at the time of loading.	r has been mixed in anyway with PCB's in concent	rations greater than or equa	to 50 ppm. I certify	that the material listed above	e contained no
PRINTED/TYPED NAME	SIGNATURE	0.		MONTH DAY	YEAR
JOHN MASILIA	0 11	1144 /1.2		6 28	21
15. TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERI	IALS TO THE TOTAL PROPERTY OF THE TOTAL PROP	my eer		10 30	1 1
PRINTED/TYPED NAME	SIGNATURE	-101		MONTH DAY	YEAR
Dand Howell	Da	11 10	cell	6 30	21
16. TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERI	ALS		7		1~(
PRINTED/TYPED NAME	SIGNATURE			MONTH DAY	YEAR
7. DISCREPANCY INDICATION SPACE					
11(a) CORRECTED WEIGHT AS SCALED (24)	TON'S				
	_ s will if				
8. FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT O	F WASTE MATERIALS COVERED BY THIS M	ANIFEST EXCEPT AS N	OTED IN ITEM 13.		
PRINTED/TYPED NAME	SIGNATURE	1 , //	/	MONTH DAY	YEAR
Monde		///		670	21
	1/1/100	161		0 50	a

Clean Earth	of Connecticut	Ticket:254	12102			
58 North Wa	shington Street		Date	Time	Scale	
Plainville,	CT 06062	In:06/	30/2021	13:17:43	CECT	
Ph:	Fax:	Out:06/	30/2021	13:17:43	CECT	
			Lbs	. Tns		
Manifest:188	1261	Gross:	69,10	0 34.55		
Vehicle:564	98A	Tare:	27 <b>,</b> 70	0 13.85		
Decal:		Net:	41,40	0 20.70		
Address:725 FAI	CO LLC n of Fairfield Old Post Road RFIELD, CT 06824	Job:Mill Hill Elementary School				
Material						
Recyclable soil/	rock/material					
Comment:						
Driver		Facility	Clean :	Earth of Cor	necticut	
		Mark Tr	an			



1.	Fairfield CT 06824			ll <sup>GENERATOR</sup> l Hill ¶ ld	RATOR'S SITE ADDRESS L1 Terrace CT 06825			
3.	Cisco Environmental, LLC	100	A. TRANSPORTER		TRANSPORTER'S P	LATE NUMBER		
5.	TRANSPORTER 2 COMPANY NAME	NOT APPLICABLE  6. US EPA ID NUMBER	B. TRANSPORTER 2	752-2558 SPHONE	56478°	-44		
	XXXXXXXXXXXXXXXXX	NOT APPLICABLE	The state of the s	000-0000		LATE NUMBER		
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF COI 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	C. FACILITY (860) 7	47-8888			
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME,	HAZARD CLASS, AND ID NUMBER		10. CONTAIN	TOTAL	12. UNIT		
a,				NO. T	YPE QUANTITY	WT/VOL		
	CONNECTICUT REGULATED WASTES			001 D	OT 00020	Т		
Ь.	Approval: 214071532 G	lobal/Job #:1004865						
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE SOIL CONTAMINATED WITH PETROLE SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORM		E. HANDI	ING CODES FOR WINTERIM SO2	WASTES LISTED ABOVE FINAL T57	E		
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this co all respects in proper condition for transport by highway according to appli- polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, no free liquids at the time of loading.  PRINTED/TYPED NAME	nsignment are fully and accurately described above by cable national governmental regulations, and all appropriate the property of the propert	the proper shipping name an icable State of Connecticut ations greater than or equal	l are classified, package laws and regulation, to 50 ppm, I certify i	I certify that this material that the material listed about	neither contains		
_	JOHN MATSILIO	San My	ziler	)	6 30	YEAR		
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIA							
7	and Minicucci	SIGNATURE			6 30	YEAR		
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATER PRINTED/TYPED NAME	17		<u> </u>	4 20	9		
	THE THE PARTY OF T	SIGNATURE			MONTH DAY	YEAR		
17.	DISCREPANCY INDICATION SPACE  11(a) CORRECTED WEIGHT AS SCALED 20.7	TON'S						
18,	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT O PRINTED/TYPED NAME  MgVK	F WASTE MATERIALS COVERED BY THIS M. SIGNATURE	ANIFEST OCEPT AS NO	TED IN ITEM 13.	MONTH DAY	YEAR		

Clean Earth	of Connecticut	Ticket:254	2322			
58 North Wa	shington Street		Date	Time	Scale	
Plainville,	CT 06062	In:06/	30/2021	15:07:32	CECT	
Ph:	Fax:	Out:06/	30/2021	15:07:32	CECT	
			Lbs	. Tns		
Manifest:188	1262	Gross:	79 <b>,</b> 34	0 39.67		
Vehicle:642	12A	Tare:	30,36	0 15.18		
Decal:		Net:	48,98	0 24.49		
Address:725 FAI	CO LLC n of Fairfield Old Post Road RFIELD, CT 06824	Carrier: Profile #:214071532  Job:Mill Hill Elementary School Address:635 Mill Hill Terrace FAIRFIELD, CT 06824				
Material						
Recyclable soil	rock/material					
Comment:						
Driver		Facility	Clean	Earth of Cor	necticut	
		Mark Tr	an			



,	CLCANCARIN		The Court of the C				
_	Town of Fairfield 75 Old Post Road Fairfield CT 06824 2 GENERATOR'S PHONE 203-256-3010		Mill Hi 635 Mil Fairfie	ll l Hill			825
3.	TRANSPORTER I COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER	'S PHONE	1	TRANSPORTER'S PL	ATE NUMBER
	Cisco Environmental, LLC	NOT APPLICABLE	( 203 '	752-25	58		
5.	TRANSPORTER 2 COMPANY NAME Lan cun	6. US EPA ID NUMBER	B. TRANSPORTER 2		-	TRANSPORTER'S PL	ATE NUMBER
	XXXXXXXXXXXXXXXXXX	NOT APPLICABLE	( 000 )	00-00	00	64212-1	7
7.	CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF CO 58 NORTH WASHINGT PLAINVILLE, CT 06062	ON STREET	C. FACIL	лту's рн ()) 747-		,
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, H.	AZARD CLASS, AND ID NUMBER		10. CON	TAINERS	11. TOTAL	12. UNIT
a.				NO.	TYPE	QUANTITY	WT/VOL
	CONNECTICUT REGULATED WASTE SO	DLID, NONE, NONE		001	DT	00020	Т
b.	Approval: 214071532 G1	obal/Job #:100486	5				
c.							
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E, HANDL	ING CODES F	OR WAST	TES LISTED ABOVE	
	SOIL CONTAMINATED WITH PETROLEU	JM HYDROCARBONS		SO2	4	T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMA	TION					
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consi all respects in proper condition for transport by highway according to applicab polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor h free liquids at the time of loading. PRINTED/TYPED NAME	has been mixed in anyway with PCB's in concent	the proper shipping name and licable State of Connecticut rations greater than or equal	f are classified, plaws and regula to 50 ppm. I ce	ackaged, mi tion. I certi ertify that th	arked and labeled/placar- iify that this material na- he material listed above	ded, and are in either contains contained no
-	JOHN MARSILIO	SIGNATURA	1-11-0			MONTH DAY	YEAR 21
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME	SIGNATURE		~	1	MONTH DAY	YEAR
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME						
	JR	SIGNATURE				6 30	YEAR 21
17.	DISCREPANCY INDICATION SPACE  24 UQ					50	-
	11(a) CORRECTED WEIGHT AS SCALED 27.71	TON'S					
18,	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF VI	WASTE MATERIALS COVERED BY THIS M.	ANIFEST EXCEPTASÃO	TED IN ITEM	13.		
	PRINTED/TYPED NAME	SIGNATURE	11//			MONTH DAY	YEAR
	Mark		1//			6 30	21

Clean Earth	of Connecticut	Ticket:254	2359		
58 North Wa	shington Street		Date	Time	Scale
Plainville,	CT 06062	In:07/	01/2021	07:44:03	CECT
Ph:	Fax:	Out:07/	01/2021	07:44:03	CECT
			Lbs	. Tns	
Manifest:188	1263	Gross:	82,02	0 41.01	
Vehicle:597	55A	Tare:	27,24	0 13.62	
Decal:		Net:	54,78	0 27.39	
Customer:CIS	CO LLC	Carrier:			
Generator:Tow	n of Fairfield	Profile #:214	071532		
Address:725	Job:Mil	l Hill E	Clementary S	chool	
FAI	RFIELD, CT 06824	Address:635 Mill Hill Terrace			
		FAI	RFIELD,	CT 06824	
Material					
Recyclable soil/	rock/material				
Comment:					
Driver		Facility	Clean :	Earth of Cor	necticut
		Mark Tr	an		<u> </u>



-	LUANGAKIN	THE TANK I	101				
1.	Town of Fairfield 75 Old Post Road Fairfield CT 06	824	Mill Hi 635 Mil Fairfie	l Hill			325
2,	GENERATOR'S PHONE 203-256-3010 TRANSPORTER I COMPANY NAME						511 WAS
.2.	TRANSPORTER I COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER	'S PHONE	Ti	RANSPORTER'S PL	ATE NUMBER
	Cisco Environmental, LLC	NOT APPLICABLE	( 203	752-255	8	59755-	-/7
5.	TRANSPORTER 2 COMPANY NAME	6. US EPA ID NUMBER	B. TRANSPORTER 2			RANSPORTER'S PL	ATE NUMBER
	XXXXXXXXXXXXXXX	NOT APPLICABLE	( 000 1	000-000	0		
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF CO 58 NORTH WASHINGT PLAINVILLE, CT 06062	ON STREET	(860)	гу's рнс 1747-8		
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HA	ZARD CLASS, AND ID NUMBER		10. CONTA		II. TOTAL	12. UNIT
a.				NO.	TYPE	QUANTITY	WT/VOL
	CONNECTICUT REGULATED WASTE SO	LID, NONE, NONE		001	DT	00020	Т
	Approval: 214071532 Glo	obal/Job # 100486	5				
e.							Sec
C.							
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		F HANDI	ING CODES EO	D WAST	ES LISTED ABOVE	
	SOIL CONTAMINATED WITH PETROLEU	M HYDROCARBONS		INTERIM SO2		FINAL T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMA	TION	1				
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consular respects in proper condition for transport by highway according to applicabe polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor higher liquids at the time of loading.  PRINTED/TYPED NME				on. I certil		
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL	S				000	21
	Day A How of	SIGNATURE	1 Ame	-	N	MONTH DAY	YEAR
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL	Sum	y oran		(	0 0	4
	PRINTED/TYPED NAME	SIGNATURE			N	MONTH DAY	YEAR
17,	DISCREPANCY INDICATION SPACE						
17.	11(a) CORRECTED WEIGHT AS SCALED 27,39	TON'S					
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF V	VASTE MATERIALS COVERED BY THE M	IANIFEST EXCEPT AS NO	TED IN ITEM	1		
	PRINTED/TYPED NAME	SIGNATURE	LACEPTAS NO	ATED BY HEM I		ONTH DAY	YEAR
	Mark					71	21

Clean Earth	of Connecticut	Ticket:254	12737		
58 North Wa	shington Street		Date	Time	Scale
Plainville,	CT 06062	In:07/	01/2021	08:25:45	CECT
Ph:	Fax:	Out:07/	01/2021	08:25:45	CECT
			Lbs	. Tns	
Manifest:188	1264	Gross:	74,72	0 37.36	
Vehicle:642	12A	Tare:	30,36	0 15.18	
Decal:		Net:	44,36	0 22.18	
Address:725 FAI	n of Fairfield Old Post Road RFIELD, CT 06824	Road Job: Mill Hill Elementary School			
Recyclable soil	rock/material				
Comment:					
Driver		Facility	Clean :	Earth of Cor	necticut
		Mark Tr	an		



6	SLEANEARIH	WINDIE WITHINI E				
L	Town of Fairfield 75 Old Post Road Fairfield CT 06	824	Mill Hil 635 Mill Fairfiel	ll L Hill '		825
2,	GENERATOR'S PHONE 203-256-3010 TRANSPORTER I COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER 1"	e bucavie	I This year on the	Twee Civil of the Co
	Cisco Environmental, LLC		The state of the s		TRANSPORTER'S PL	ATE NUMBER
5.	TRANSPORTER 2 COMPANY NAME	NOT APPLICABLE  6. US EPA ID NUMBER	( 203 7 B. TRANSPORTER 2	52-2558	TRANSPORTER'S PL	ATT MINISTER
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	NOT APPLICABLE	185 / GHB 178	00-0000	//1212	ATE NUMBER
7.	CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF COM 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	(860) 7	S PHONE 47-8888	
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HA	AZARD CLASS, AND ID NUMBER		10. CONTAIN	TOTAL YPE QUANTITY	UNIT
a,				140.	OUANITY .	WT/VOL
	CONNECTICUT REGULATED WASTE SO			001	OT 00020	T
b.	Approval: 214071532 G1	obal/Job #:1004865	,			-
D.						
e.						
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		F HANDLI	NG CODES FOR	WASTES LISTED ABOVE	
	SOIL CONTAMINATED WITH PETROLEU	JM HYDROCARBONS		INTERIM SO2	FINAL T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMA	NTION				
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this constall respects in proper condition for transport by highway according to applicat polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor firee liquids at the time of loading.  PRINTED/TYPED NAME				I certify that this material in that the material listed above	
	JOHN MATSILIO	SCV	lu loi		MONTH DAY	71
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME	LS SIGNATURE			MONTH DAY	YEAR
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME	LS SIGNATURE				
	SR	M			B 7	21
17.	DISCREPANCY INDICATION SPACE					
	11(a) CORRECTED WEIGHT AS SCALED 22.18	TON'S	_			
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF	WASTE MATERIALS COVERED BY THIS M.	ANIEDST EXCEPT AS NO	TED IN ITEM 13.		
	PRINTED/TYPED NAME  MARKETTE NAME	STOWN RE	1		MONTH DAY	YEAR
	1 V Coci 4	1010				2

58 North Wa	of Connecticut shington Street	Ticket:254	Date		
Plainville,	CT 06062			08:38:48	CECT
Ph:	Fax:	Out:07/	01/2021	08:38:48	CECT
			Lbs	. Tns	
Manifest:188	31265	Gross:	80,58	0 40.29	
Vehicle:424	52A	Tare:	•	0 13.82	
Decal:	. 9	Net:		0 26.47	
Address:725	n of Fairfield Old Post Road RFIELD, CT 06824	Address:635	l Hill E Mill Hi	Elementary S Ill Terrace CT 06824	chool
Comment:					
Driver		Facility	Clean	Earth of Cor	nnecticut
		Mark Tr	an		



2.	Town of Fairfield 75 Old Post Road Fairfield CT 06824 2. GENERATOR'S PHONE 203-256-3010		Mill Hi 635 Mil Fairfie	l Hill ld	or's si	rrace CT 06	325
3.	and the control of the state of the control of the state	120 120 120 120 120 120 120 120 120 120	A. TRANSPORTER I	'S PHONE		TRANSPORTER'S PL.	ATE NUMBER
5.	Cisco Environmental, LLC	NOT APPLICABLE		752-255	7.576	1049	55. K
	XXXXXXXXXXXXXXXXXXX	6. US EPA ID NUMBER  NOT APPLICABLE	B. TRANSPORTER 2	'S PHONE 000-000		TRANSPORTER'S PL	ATE NUMBER
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF CON 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	(860)		HONE -8888	
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HA	AZARD CLASS, AND ID NUMBER		10. CONTA	AINERS	TOTAL OUANTITY	UNIT
a.	CONNECTICUT REGULATED WASTE SO	LID, NONE, NONE		001	DT	00020	WT/VOL
		obal/Job #:1004865				00020	
b.							
C.							
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E. HANDL	ING CODES FO	R WAS	TES LISTED ABOVE	
	SOIL CONTAMINATED WITH PETROLEU	M HYDROCARBONS		INTERIM SO2		FINAL T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMAL	TION					
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consist all respects in proper condition for transport by highway according to applicable polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor higher liquids at the time of loading.  PRINTED/TYPED NAME.	griment are fully and accurately described above by a le national governmental regulations, and all appl as been mixed in anyway with PCB's in concentr	he proper shipping name and icable State of Connecticut ations greater than or equal	are classified, pac laws and regulations to 50 ppm. I cert	ckaged, none I certainly that t	narked and labeled/placard tify that this material ne the material listed above	led, and are in ither contains contained no
15.	JOHN MARSILIO	Sa M	ais les			MONTH DAY	YEAR
130	PRINTED TYPED NAME	SIGNATURE		$\rightarrow$		MONTH DAY	YEAR
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL	s				91	0
	PRINTED/TYPED NAME	SIGNATURE				MONTH DAY	YEAR
17.	DISCREPANCY INDICATION SPACE  11(a) CORRECTED WEIGHT AS SCALED 2647	FON'S					
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF W	WASTE MATERIALS COMPAND AND		,			
	PRINTED/TYPED NAME  Month	VASTE MATERIALS COVERED BY THIS MASSIGNATURE	ANIFEST EXCEPTAS XO	TED IN ITEM I		MONTH DAY	ZI YEAR

Clean Earth	of Connecticut	Ticket:254	3004			
58 North Wa	shington Street		Date	Time	Scale	
Plainville,	CT 06062	In:07/	01/2021	10:32:05	CECT	
Ph:	Fax:	Out:07/	01/2021	10:32:05	CECT	
			Lbs	. Tns		
Manifest:188	1266	Gross:	80,54	0 40.27		
Vehicle:597	55A	Tare:	27,24	0 13.62		
Decal:		Net:	53,30	0 26.65		
Address:725	CO LLC n of Fairfield Old Post Road RFIELD, CT 06824	Job:Mill Hill Elementary School				
Material						
Recyclable soil	/rock/material					
Comment:						
Driver		Facility	Clean	Earth of Cor	nnecticut	
		Mark Tr	an			



0	SECANCARIII					
1.	GENERATOR'S PHONE 203-256-3010	824	Mill Hi 635 Mill Fairfiel	ll l Hill T		825
3.	TRANSPORTER I COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER I	S PHONE	TRANSPORTER'S PL	ATE NUMBER
17	Cisco Environmental, LLC	NOT APPLICABLE	( 203 7	52-2558	55755	A
5.	TRANSPORTER 2 COMPANY NAME	6. US EPA ID NUMBER	B. TRANSPORTER 2'	S PHONE	TRANSPORTER'S PL	ATE NUMBER
	XXXXXXXXXXXXXXXXX	NOT APPLICABLE	( 000 0	000-0000		
7	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF COL 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	C. FACILITY'S (860) 74		
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HA	AZARD CLASS, AND ID NUMBER		10. CONTAINE	TOTAL	12. UNIT
a.				NO. TY	PE QUANTITY	WT/VOL
	CONNECTICUT REGULATED WASTE SO	LID, NONE, NONE		001 D	T 00020	Т
	Approval: 214071532 G1	obal/Job #:100486	5			
b.						
C.	*					
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE					
	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E. HANDL		ASTES LISTED ABOVE	
	SOIL CONTAMINATED WITH PETROLEU	M HYDROCARBONS		SO2	T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMA	TION				
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consall respects in proper condition for transport by highway according to applicate polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor tree liquids at the time of loading.  PRINTED/TYPED NAME	de national governmental regulations, and all are	plicable State of Connections	laws and randation I	certify that this material is that the material listed above	neither contains we contained no
	JOHN MARILIO		Aug (/ )		MONTH DAY	YEAR
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIA	LS UM	w Su		/ /	2
	David 1to well	SIGNATURE	Hould		MONTH DAY	YEAR 21
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME	LS SIGNATURE			Lucytri Laur	Vern
	Secretary and the secretary an	SIGNATURE			MONTH DAY	YEAR
17.	DISCREPANCY INDICATION SPACE					1
	11(a) CORRECTED WEIGHT AS SCALED 26,65	TON'S				
44						
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF PRINTED/TYPED NAME	WASTE MATERIALS COVERED BY THIS IN SIGNATURE	MANIFEST EXCEPT AS NO	OTED IN ITEM 13.	MONTH SAY	375.4 %
	Made	The signature			MONTH DAY	2/
	1 69 6	11/1/24/1	~			04

Clean Earth	of Connecticut	Ticket:254	13102		
58 North Wa	shington Street		Date	Time	Scale
Plainville,	CT 06062	In:07/	01/2021	11:10:56	CECT
Ph:	Fax:	Out:07/	01/2021	11:10:56	CECT
			Lbs	. Tns	
Manifest:188	1267	Gross:	76,40	0 38.20	
Vehicle:424	52A	Tare:	27,64	0 13.82	
Decal:		Net:	48,76	0 24.38	
Customer:CIS Generator:Tow	CO LLC n of Fairfield	Carrier: Profile #:214	1071532		
Address:725	Old Post Road	Job:Mil	l Hill E	Clementary S	chool
FAI	RFIELD, CT 06824	Address:635	Mill Hi	.ll Terrace	
		FAI	RFIELD,	CT 06824	
Material					
Recyclable soil	/rock/material				
Comment:					
Driver		Facility	Clean :	Earth of Cor	necticut
		Mark Tr	an		



1.	GENERATOR'S PHONE 203-256-3010	6824		Mill Hi 635 Mill Fairfie	l Hill	tor's si	rrace CT 068	325
3.	TRANSPORTER I COMPANY NAME	4.	US EPA ID NUMBER	A. TRANSPORTER I	S PHONE		TRANSPORTER'S PLA	ATE NUMBER
	Cisco Environmental, LLC		NOT APPLICABLE	( 203 7	52-25	58	61245	ZA
5.	TRANSPORTER 2 COMPANY NAME	6.	US EPA ID NUMBER	B. TRANSPORTER 2			TRANSPORTER'S PL/	ATE NUMBER
	XXXXXXXXXXXXXXXXX		NOT APPLICABLE	( 090 0	00-00	00		
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8.	MAILING ADDRESS CLEAN EARTH OF COI 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	C. FACIL		HONE -8888	
9,	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME,	. HAZARD	CLASS, AND ID NUMBER		10. CON	TAINERS	S 11. TOTAL	12. UNIT
a,					NO.	TYPE		WT/VOL
	CONNECTICUT REGULATED WASTES				001	DT	00020	Т
b.	Approval: 214071532 G	loba	1/Job #:1004865	5				
c.								
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE						STES LISTED ABOVE	
13.	SOIL CONTAMINATED WITH PETROLE SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORM		IYDROCARBONS		SO2		FINAL T57	
14.	CENED STORES CERTIFICATION, I have been designed to the control of							
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this ci all respects in proper condition for transport by highway according to appl polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, no free liquids at the time of loading. PRINTED/TYPED NAME	dicable natio	nal dovernmental regulations and all see	nlicable State of Connecticut trations greater than or equal	layer and month	petitiones I ma	ertify that this material not the material listed above	either contains contained no
15.	JOHN MASILO TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATER	RIAIS	July	un Vir			MONTH DAY	YEAR
(	PRINTED/TYPED NAME  AN all	TL	SIGNATURE				MONTH DAY	YEAR 21
16,	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATER PRINTED/TYPED NAME	RIALS	SIGNATURE				MONTH DAY	YEAR
17.	DISCREPANCY INDICATION SPACE  11(a) CORRECTED WEIGHT AS SCALED   24.3	TON'S		A				
18,	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF PRINTED/TYPED NAME  Mack	OF WASTE	MATERIALS COVERED BY THIS M SIGNATURE	MANIFES EXCEPT AS NO	OTED IN ITEM	4 13.	MONTH DAY	YEAR

Clean Earth of Conne	ecticut	Ticket:254	3157		
58 North Washington	Street		Date	Time	Scale
Plainville, CT 06062	)	In:07/	01/2021	11:33:13	CECT
Ph: F	ax:	Out:07/	01/2021	11:33:13	CECT
			Lbs.	. Tns	
Manifest:1881268		Gross:	78 <b>,</b> 900	39.45	
Vehicle:64212A		Tare:	30,360	15.18	
Decal:		Net:	48,540	24.27	
Customer:CISCO LLC		Carrier:			
Generator:Town of Fair	field	Profile #:214	071532		
Address:725 Old Post	Road	Job:Mil	l Hill E	lementary So	chool
FAIRFIELD, C	CT 06824	Address:635			
		FAI	RFIELD,	CT 06824	
Material					
Recyclable soil/rock/materia	al				
Comment:					
Driver		Facility	Clean E	Earth of Con	necticut
		Mark Tr	an		



	CANGARIA						
2. 3.	Town of Fairfield  75 Old Post Road  Fairfield CT 068  GENERATOR'S PHONE 203-256-3010  TRANSPORTER I COMPANY NAME	24 4. US EPA ID NUMBER	Mill Hi 635 Mil Fairfie	l Hill ld	. Ter	race CT 06	
	Cisco Environmental, LLC		A. TRANSPORTER I			RANSPORTER'S PL	ATE NUMBER
5.	1	NOT APPLICABLE  5. US EPAID NUMBER	B. TRANSPORTER 2	752-25 S PHONE		RANSBORTER'S PL	ATE NUMBER
7.	XXXXXXXXXXXXXXXXX	NOT APPLICABLE	( 090 0	00-00	CIPLIE	64210	) A
	CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	CLEAN EARTH OF CON 58 NORTH WASHINGTO PLAINVILLE, CT 06062			.ITY'S PHO )) 747-8		
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZ	ARD CLASS, AND ID NUMBER		10. CON	TAINERS	TOTAL OUANTITY	UNIT WT/VOL
a.	CONNECTICUT REGULATED WASTE SOL Approval: 214071532 Glo	.ID, NONE, NONE bal/Job #:1004865		001	DT	00020	Т
b.		241, 935 #.1304003					
C.							
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE  SOIL CONTAMINATED WITH PETROLEUM	M HYDROCARBONS	E. HANDL	ING CODES F INTERIN SO2		ES LISTED ABOVE FINAL T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATI	ON					
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consign all respects in proper condition for transport by highway according to applicable polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor has free liquids at the time of loading.  PRINTED/TYPED NAME						
,	JOHN MARSI W	SIGNATURA	raisli	i	3	G 30	YEAR
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS PRINTED/TYPED NAME	SIGNATURE			3	MONTH DAY	YEAR
16.	PRINTED/TYPED NAME	SIGNATARE			N	MONTH DAY	YEAR 2
17.	DISCREPANCY INDICATION SPACE  11(a) CORRECTED WEIGHT AS SCALED 24.27			Λ			
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF W. PRINTED/TYPED NAME	ASTE MATERIALS COVERED BY THIS M. SIGNATURE	ANIFEST EXCEPT AS NO	TEU IN TEM	-	7 DAY	YEAR 2

Clean Earth	of Connecticut	Ticket:254	13444		
58 North Wa	shington Street		Date	Time	Scale
Plainville,	CT 06062	In:07/	01/2021	14:05:13	CECT
Ph:	Fax:	Out:07/	01/2021	14:05:13	CECT
			Lbs	. Tns	5
Manifest:188	1277	Gross:	78 <b>,</b> 72	0 39.36	5
Vehicle: 424	52A	Tare:	27,64	0 13.82	2
Decal:		Net:	51,08	0 25.54	1
Customer:CIS	CO LLC	Carrier:			
Generator:Town	n of Fairfield	Profile #:214	1071532		
Address:725	Old Post Road	Job:Mil	l Hill E	Clementary	School
FAI	RFIELD, CT 06824	Address:635	Mill Hi	.ll Terrace	
		FAI	RFIELD,	CT 06824	
Material					
Recyclable soil/	rock/material				
Comment:					
Driver		Facility	Clean 1	Earth of Co	onnecticut
		Mark Tr	ran		



6	LEANGARIN						
1.	GENERATOR'S NAME AND MAILING ADDRESS Town of Fairfield		Mill H	GENERATOI	S SITE ADD	RESS	
	75 Old Post Road			ll Hill	Terra	97	
		324	Fairfi			T 06	825
3.	TRANSPORTER I COMPARA 203 256 3010	4. US EPA ID NUMBER	A. TRANSPORTEI	R I'S PHONE	TRANS	PORTER'S PL	ATE NUMBER
		NOT APPLICABLE	( - ) -		4	7.45	7. A
5.	Cisco Environmental, LLC	6. US EPA ID NUMBER	B. TRANSPORTER	752-255 2'S PHONE		PORTER'S PL	ATE NUMBER
	XXXXXXXXXXXXXXXXXX	NOT APPLICABLE	( 000	000-000	0		
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT	8. MAILING ADDRESS  CLEAN EARTH OF CO	NNECTICUT	C. FACILITY	"S PHONE		
	58 NORTH WASHINGTON STREET	58 NORTH WASHINGTO		(860)	747-8888	3	
	PLAINVILLE, CT 06062	PLAINVILLE, CT 06062					
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HA	ZARD CLASS, AND ID NUMBER		10. CONTAI	NERS	11. TOTAL	12. UNIT
a.				NO.	TYPE Q	UANTITY	WT/VOL
	CONNECTICUT REGULATED WASTE SO	LID, NONE, NONE		001	DT (	00020	Т
ъ.	Approval: 214071532 G10	obal/Job #:1004865	5				
D.	•						
C.							
~							
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E HAN	DLING CODES FOR	WASTESTI	TED ABOVE	
			E. HAIS	INTERIM		NAL .	
	SOIL CONTAMINATED WITH PETROLEU	M HYDROCARBONS		SO2	Т	57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMA	TION					
							- 1
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this const	gnment are fully and accurately described above by	the proper shipping name	and are classified, pack	aged, marked a	nd labeled/placa	rded, and are in
	all respects in proper condition for transport by highway according to applicate polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor higher liquids at the time of loading.	ole national governmental regulations, and all app has been mixed in anyway with PCB's in concen-	plicable State of Connecti trations greater than or eq	cut laws and regulatio wal to 50 ppm. I certi	<ul> <li>I certify that fy that the mat</li> </ul>	t this material r crial listed abov	either contains e contained no
	PRINTED/TYPED NAME	SIGNATURE	11.	1.	MONT	H DAY	YEAR
	JOHN MAUSINU	San	Marsil	les			
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL		10.00				
	PRINTED/TYPED NAME	SIGNATURE		>	MONT	TH DAY	YEAR
10.0	set y mille				/	(	SI
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME	LS SIGNATURE			MONT	H DAY	YEAR
17.	DISCREPANCY INDICATION SPACE					_1	
	11(a) CORRECTED WEIGHT AS SCALED 25.54	TON'S					1
	True connection metalling senter	TOR'S					
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF	WASTE MATERIALS COVERED BY THE A	AANTEGET EVERENT A	Kloven over			
10.	PRINTED/TYPED NAME	WASTE MATERIALS COVERED BY THIS N	MANIFEST EXCEPT A	JOIED IN ITEM I	MONT	H DAY	YEAR
	1/1	111	////		_	7 1	71
	VVION		CAR		1	1	21

Clean Earth	n of Connecticut	Ticket:254	43449		
58 North Wa	ashington Street		Date	Time	Scale
Plainville,	CT 06062	In:07,	/01/2021	14:08:56	CECT
Ph:	Fax:	Out:07,	/01/2021	14:08:56	CECT
			Lbs	. Tns	3
Manifest:188	31279	Gross:	79 <b>,</b> 74	0 39.87	,
Vehicle:597	755A	Tare:	27,24	0 13.62	
Decal:		Net:	52 <b>,</b> 50	0 26.25	
Customer:CIS	SCO LLC	Carrier:			
Generator:Tow	vn of Fairfield	Profile #:214	4071532		
Address:725	Old Post Road	Job:Mil	ll Hill E	Elementary	School
FA]	IRFIELD, CT 06824	Address:635	5 Mill Hi	ll Terrace	
		FAI	IRFIELD,	CT 06824	
Material					
Recyclable soil	/rock/material				
Comment:					
Driver		Facility	Clean	Earth of Co	nnecticut
		Mark Ti	ran		<u> </u>



0	JEANGARIA	THE RESERVED TO SERVED TO	201				
1.	GENERATOR'S PHONE 202-255 2010	824	Mill Hi 635 Mil Fairfie	ll 1 Hill			825
3.	TRANSPORTER I COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER 1	'S PHONE	1	RANSPORTER'S PL	ATE NUMBER
	Cisco Environmental, LLC	NOT APPLICABLE	( - ) -			ED TI	DA
5.	TRANSPORTER 2 COMPANY NAME	6. US EPA ID NUMBER	203	752-25		71/5	DI
		G G LIAID NOMBER	B. TRANSPORTER 2	SPHONE	1	RANSPORTER'S PL	ATE NUMBER
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	NOT APPLICABLE	( 000 0	000-000	00		
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF COI 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	c. facili	747-		
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, H.	AZARD CLASS, AND ID NUMBER		10. CONT	AINERS	11.	12.
a.				NO.	TYPE	TOTAL QUANTITY	WT/VOL
d.	CONNECTICUT REGULATED WASTE SO	DLID, NONE, NONE		001	DT	00020	Т
	Approval: 214071532 C1	obal/Job #:1004865					
Ъ.							
c.							
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		F HANDI	ING CODES EC	D WAST	ES LISTED ABOVE	
	SOIL CONTAMINATED WITH PETROLEU			SO2		T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMA						
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this const all respects in proper condition for transport by highway according to applicab polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor h free liquids at the time of loading. PRINTED/TYPED NAME.	gnment are fully and accurately described above by ole national governmental regulations, and all appl as been mixed in anyway with PCB's in concentr	the proper shipping name and icable State of Connecticut l ations greater than or equal	are classified, pa laws and regulat- to 50 ppm. I cer	ion. I certi	fy that this material ne ne material listed above	ither contains contained no
	They Marcilia	SIN	1 . 0	`		MONTH DAY	YEAR
15.	TRANSPORTER LACKNOWLEDGEMENT OF RECEIPT OF MATERIAL	Jan 1	ande	2		7 1	21
13.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED TYPED NAME	SIGNATURE	0		14	MONTH DAY	- '
16	Dand Havell	Davil	Hond	1		7 1	PEAR 21
16.	TRANSPORTER TACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME	.S SIGNATURE	/		- 1	MONTH DAY	****
						MONTH DAY	YEAR
17.	DISCREPANCY INDICATION SPACE  11(a) CORRECTED WEIGHT AS SCALED 26-25	TON'S					
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF V	WASTE MATERIALS COVERED BY THIS MA	NIFEST EXCEPT AS NO	TENMITTER	1.2		
	PRINTED/TYPED NAME  Mark	SIGNATURE	MILEST EXCEPT AS NO	TEN ITEM		ONTH DAY	YEAR 21
	110011		111/1-			2 (	7

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6	LEANEARIH	VIZIOTE IVIZITIE				
1.	GENERATOR'S NAME AND MAILING ADDRESS Town of Fairfield		Mill Hi		S SITE ADDRESS	
	75 Old Post Road		635 Mil	ll Hill 7	errace	
2.	Fairfield CT 068 GENERATOR'S PHONE 203-256-3010 TRANSPORTER I COMPANY NAME 256-3010	824	Fairfie	eld	CT 06	825
3.	TRANSPORTER I COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER	I'S PHONE	TRANSPORTER'S PL	ATE NUMBER
5.	Cisco Environmental, LLC	NOT APPLICABLE  6. US EPAID NUMBER	B. TRANSPORTER	752-2558		
*0*	Lindun		19/10 (19/00/2004) ETF		TRANSPORTER'S PL	
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS	NOT APPLICABLE  8. MAILING ADDRESS	( 000	C. FACILITY	64217	14
	CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	CLEAN EARTH OF CON 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	200000000000000000000000000000000000000	47-8888	
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HA	ZARD CLASS, AND ID NUMBER		10. CONTAIN	ERS 11. TOTAL YPE QUANTITY	UNIT WT/VOL
a.	CONNECTICUT REGULATED WASTE SO	LID, NONE, NONE		001	OT 00020	Т
	Approval: 214071532 G10	obal/Job #:1004865				
b.						
c.						
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE					
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E. HANE	LING CODES FOR V	WASTES LISTED ABOVE FINAL	
	SOIL CONTAMINATED WITH PETROLEU	M HYDROCARBONS		SO2	T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION AND ADDITIONAL INF	TION				
13	CENERATOR'S CERTIFICATION, I.S.					
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consi all respects in proper condition for transport by highway according to applicable polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor h free liquids at the time of loading.	de national governmental regulations, and all ago-	ienble State of Connecticu	at James used recorderion	I contification this metacial -	and an annual an
	PRINTED/TYPED NAME	SIGNATURE	0	\	MONTH DAY	YEAR
15.	20HN 1110451110	Jan	auler	)	6 30	31
12.	TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME	SIGNATURE			MONTH DAY	YEAR
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME	LS SIGNATURE			MONTH DAY	VEAR
	dr	SIGNATORE	1		MONTH DAY	YEAR (
17.	DISCREPANCY INDICATION SPACE	V			1 1	191
	11(a) CORRECTED WEIGHT AS SCALED 34.5	TON'S				
	4-11-2					
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF		ANIFEST EXCEPT AS N	NOTED IN 11 M 13.		
	PRINTED/TYPED NAME	SIGNATURE	220	//	MONTH DAY	YEAR
	Mount		- dal		1	21
_	11100		MILION	~		

Ticket:254	5468		
	Date	Time	Scale
In:07/	08/2021	08:38:30	CECT
Out:07/	08/2021	08:38:30	CECT
	Lbs	. Tns	
Gross:	66,00	0 33.00	
Tare:	27 <b>,</b> 70	0 13.85	
Net:	38,30	0 19.15	
Carrier:			
Profile #:214	071532		
Job:Mil	l Hill E	Elementary S	chool
Address:635	Mill Hi	ll Terrace	
FAI	RFIELD,	CT 06824	
Facility	Clean :	Earth of Cor	necticut
Mark Tr	an		
	In:07/ Out:07/  Gross: Tare: Net: Carrier: Profile #:214 Job:Mil Address:635 FAI	In:07/08/2021 Out:07/08/2021  Lbs Gross: 66,00 Tare: 27,70 Net: 38,30  Carrier: Profile #:214071532 Job:Mill Hill E Address:635 Mill Hi FAIRFIELD,	Date Time In:07/08/2021 08:38:30 Out:07/08/2021 08:38:30  Lbs. Tns Gross: 66,000 33.00 Tare: 27,700 13.85 Net: 38,300 19.15  Carrier: Profile #:214071532 Job:Mill Hill Elementary S Address:635 Mill Hill Terrace FAIRFIELD, CT 06824  Facility Clean Earth of Cor



-	LCANGARIA					
1. 2.	75 Old Post Road Fairfield CT 068 GENERATOR'S PHONE 203-256-3010 TRANSPORTER I COMPANY NAME	324 4. US EPA ID NUMBER	THE STREET STREET	2.0%	errace	825
1861	Cisco Environmental, LLC	NOT APPLICABLE	1	752-2558	564 88	7-14
5.	TRANSPORTER 2 COMPANY NAME XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6. US EPA ID NUMBER  NOT APPLICABLE	B. TRANSPORTER 2	000-0000	TRANSPORTER'S PL	ATE NUMBER
7.	CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF COL 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	C. FACILITY'S (860) 74		
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HA	ZARD CLASS, AND ID NUMBER		10. CONTAINE	ERS II. TOTAL QUANTITY	UNIT WT/VOL
a,	CONNECTICUT REGULATED WASTE SO: Approval: 214071532 G16	LID, NONE, NONE	5	001 D	T 00020	Т
b.						
C.						
		*				
D,	SOIL CONTAMINATED WITH PETROLEU  SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMAT		E. HAND	INTERIM SO2	FINAL T57	
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consist all respects in proper condition for transport by highway according to applicable polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor higher liquids at the time of loading.  PRINTED/TYPED NAME  JOHN MAYS III	le national governmental regulations, and all an	plicable State of Connecticu	t laws and regulation	I certify that this material r	neither contains
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME		7-17			
7	anes MinicuCI TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL	SIGNATURE			7 8	ZÍ
	PRINTED/TYPED NAME	SIGNATURE			MONTH DAY	YEAR
	DISCREPANCY INDICATION SPACE  11(a) CORRECTED WEIGHT AS SCALED 19,15	TON'S				
	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF A PRINTED/TYPED NAME	WASTE MATERIALS COVERED BY THIS M SIGNATURE		OTED IN ITEM 13.	MONTH DAY	YEAR 24

Clean Earth	of Connecticut	Ticket:254	17063		
58 North Wa	shington Street		Date	Time	Scale
Plainville,	CT 06062	In:07/	08/2021	11:33:55	CECT
Ph:	Fax:	Out:07/	08/2021	11:33:55	CECT
			Lbs.	Tns	
Manifest:188	1271	Gross:	45 <b>,</b> 740	22.87	
Vehicle:564	98A	Tare:	27 <b>,</b> 700	13.85	
Decal:		Net:	18,040	9.02	
Customer:CIS	CO LLC	Carrier:			
Generator:Tow	n of Fairfield	Profile #:214	1071532		
Address:725	Old Post Road	Job:Mil	l Hill E	lementary S	chool
FAI	RFIELD, CT 06824	Address:635	Mill Hi	ll Terrace	
		FAI	RFIELD,	CT 06824	
Material					
Recyclable soil/	rock/material				
Comment:					
Driver		Facility	Clean E	arth of Con	necticut
		Mark Tr	ran		_



1.								
	San and State of the State of ADDRESS		T		GENERA	TOR'S S	ITE ADDRESS	
	Town of Fairfield		Mi	ll Hil	1			
	75 Old Post Road			5 Mill		Te	rrace	
2.	Esistiald CT 06	5824	0.000	irfiel				325
3.	TRANSPORTER I COMPA 2034256-3010	4. US EPA ID NUMBER		SPORTER 1'		T	TRANSPORTER'S PL	
		NOT APPLICABLE	1	)			564 GG-	1
5.	CiscoerEnwironmental, LLC	6. US EPA ID NUMBER	B. TRAN	200 Brer 27	5@m25	58	TRANSPORTER'S PL	ATE NUMBER
		NOT APPLICABLE	1	1			н	
7.	THE PROPERTY OF THE PROPERTY O	8. MAILING ADDRESS	- (	<del>o o o</del>	PD-09	00 .	HONE	
	CLEAN EARTH OF CONNECTICUT	CLEAN EARTH OF CO		CUT				
	58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	58 NORTH WASHINGTO		ET	(800	) /4/	-8888	
9.		PLAINVILLE, CT 06062						
	TO THE PROPERTY OF THE PROPERT	IAZARD CLASS, AND ID NUMBER			10. CONT	TAINER	S 11. TOTAL	12. UNIT
à.					NO.	TYPE		WT/VOL
	CONNECTICUT REGULATED WASTE SO	OLID NONE NONE			004	ОТ	00000	_
	COLLEGE REGULATED WASTES	SLID, NONE, NONE			001	DT	00020	T
b.	Approval: 214071532 G1	-h-1/1-h # 100405						
	11pp10vd1. 2140/1332 G1	obal/Job #:1004865	1					
							1 1	
C.								
							1 1	
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE			E HANDIN	VC COPICE P	OB WA		
				L. HANDLE	INTERIM		STES LISTED ABOVE FINAL	
	SOIL CONTAMINATED WITH PETROLEI	JM HYDROCARBONS			SO2		T57	
					100.500.000		157	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMA							
17	CENTRAL TORS OF COMMENT							
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this contall respects in proper condition for transport by highway according to applica	signment are fully and accurately described above by	he proper shipp	oing name and a	re classified, pa	ackaged,	marked and labeled/placar	led, and are in
14.	polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.	signment are fully and accurately described above by able national governmental regulations, and all app has been mixed in anyway with PCB's in concentr	he proper shipp icable State of ations greater t	oing name and a Connecticut la than or equal to	ere classified, pa ws and regulat 50 ppm. I ce	ackaged, tion. 1 ce rtify that	marked and labeled/placare rtify that this material ne the material listed above	led, and are in ither contains contained no
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this contail respects in proper condition for transport by highway according to applicate polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.  PRINTED/TYPED NAME	signment are fully and accurately described above by tallon national governmental regulations, and all appl has been mixed in anyway with PCB's in concentrations.	he proper shipp icable State of ations greater t	oing name and a Connecticut la	are classified, pa ws and regulat 50 ppm. 1 cer	ackaged, tion. I ce rtify that	marked and labeled/placaretify that this material ne the material listed above	led, and are in ither contains contained no
14.	polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.	signment are fully and accurately described above by the national governmental regulations, and all appl has been mixed in anyway with PCB's in concentrations.	the proper shipp icable State of ations greater i	oing name and a Connecticut la han or equal to	are classified, pa ws and regulat 50 ppm. I cer	ackaged, ion. I certify that	rtify that this material ne the material listed above	ither contains contained no
14.	polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.  PRINTED/TYPED NAME  TRAISPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIA	has been mixed in anyway with PCB's in concentr	the proper shippicable State of ations greater to	oring name and a Connecticut la than or equal to	are classified, pa ws and regulat 5 50 ppm. 1 cer	ackaged, ion. I ce rtify that	tify that this material ne the material listed above	ither contains contained no
	polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.  PRINTED/TYPED NAME  John Malana	has been mixed in anyway with PCB's in concentr	he proper shipp icable State of ations greater t	oing name and a Connecticut la than or equal to	re classified, pa ws and regulat 50 ppm. I cer	ickaged, ion. I ce rtify that	month Day  Month Day	ither contains contained no
	polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.  PRINTED/TYPED NAME  TRAISPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIA	has been mixed in anyway with PCB's in concentration of the second secon	he proper shipp icable State of ations greater t	oing name and a Connecticut la than or equal to	are classified, pa ws and regulat 50 ppm. I cer	ackaged, ion. I ce rtify that	month Day	YEAR YEAR
	polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.  PRINTED/TYPED NAME  TRAYSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME  TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA	has been mixed in anyway with PCB's in concentration of the second of th	the proper shipp icable State of ations greater to	or equal to	are classified, pp. ws and regulat 50 ppm. I cer	ackaged, tion. I certify that	month Day  Month Day	YEAR
15.	polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.  PRINTED/TYPED NAME  TRAISPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME  CLAR CS. M. M. C.C.C. C. L.	has been mixed in anyway with PCB's in concentration of the second of th	the proper shipp icable State of ations greater t	oing name and a Connecticut la than or equal to	rre classified, pp ws and regulat 50 ppm. I cer	ickaged, ion. I certify that	month Day  Month Day	YEAR YEAR
15.	polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.  PRINTED/TYPED NAME  TRAYSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME  TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA	has been mixed in anyway with PCB's in concentration of the second state of the second	he proper shipp icable State of ations greater t	oing name and a Connecticut la than or equal to	are classified, pa ws and regulat 50 ppm. I cer	ackaged, tion. I certify that	month Day  Month Day  Month Day  Month Day	YEAR Z YEAR Z I
15.	polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.  PRINTED/TYPED NAME  TRAYSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME  TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA	has been mixed in anyway with PCB's in concentration of the second state of the second	the proper shipp icable State of ations greater to	or connecticut la han or equal to	are classified, pa ws and regulat 50 ppm. I cer	ackaged, ion. 1 certify that	month Day  Month Day  Month Day  Month Day	YEAR Z YEAR Z I
15.	polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.  PRINTED/TYPED NAME  TRAI SPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME  TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME  DISCREPANCY INDICATION SPACE	has been mixed in anyway with PCB's in concentration of the concentratio	the proper shipp icable State of ations greater to	Connecticut la	are classified, pp. ws. and regulat 50 ppm. I cer	nckaged,	month Day  Month Day  Month Day  Month Day	YEAR Z YEAR Z I
15.	polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.  PRINTED/TYPED NAME  TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME  TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME	has been mixed in anyway with PCB's in concentration of the second state of the second	the proper shipp icable State of ations greater to	connecticut la connec	are classified, pa ws and regulat 50 ppm. I cer	nckaged,	month Day  Month Day  Month Day  Month Day	YEAR Z YEAR Z I
15.	polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.  PRINTED/TYPED NAME  TRAI SPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME  TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME  DISCREPANCY INDICATION SPACE	has been mixed in anyway with PCB's in concentration of the concentratio	he proper shippicable State of ations greater i	oing name and a Connecticut la than or equal to	are classified, pa ws and regulat 50 ppm. I cer	hckaged,	month Day  Month Day  Month Day  Month Day	YEAR YEAR Z
15.	polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.  PRINTED/TYPED NAME  TRAYSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME  TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME  DISCREPANCY INDICATION SPACE  11(a) CORRECTED WEIGHT AS SCALED	has been mixed in anyway with PCB's in concentrations. Also signature Signature  Signature  Signature  Ton's	Aug.	Connecticut la	ws and regulation 50 ppm. I cer	ion. I ce	month Day  Month Day  Month Day  Month Day	YEAR Z YEAR Z I
16.	polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.  PRINTED/TYPED NAME  TRAYSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME  TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME  DISCREPANCY INDICATION SPACE  11(a) CORRECTED WEIGHT AS SCALED  FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF	has been mixed in anyway with PCB's in concentrations. Also signature Signature  Signature  Signature  Ton's  Waste Materials Covered by this Materials.	Aug.	Connecticut la	ws and regulation 50 ppm. I cer	ion. I ce	month Day  Month Day  Month Day  Month Day	YEAR Z YEAR Z I
16.	polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.  PRINTED/TYPED NAME  TRAYSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME  TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME  DISCREPANCY INDICATION SPACE  11(a) CORRECTED WEIGHT AS SCALED	has been mixed in anyway with PCB's in concentrations. Also signature Signature  Signature  Signature  Ton's	Aug.	Connecticut la	ws and regulation 50 ppm. I cer	ion. I ce	month Day  Month Day  Month Day  Month Day	YEAR Z YEAR Z I
15.	polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor free liquids at the time of loading.  PRINTED/TYPED NAME  TRAYSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME  TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIA PRINTED/TYPED NAME  DISCREPANCY INDICATION SPACE  11(a) CORRECTED WEIGHT AS SCALED  FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF	has been mixed in anyway with PCB's in concentrations. Also signature Signature  Signature  Signature  Ton's  Waste Materials Covered by this Materials.	Aug.	Connecticut la	ws and regulation 50 ppm. I cer	ion. I ce	MONTH DAY  MONTH DAY  MONTH DAY  MONTH DAY	YEAR Z YEAR YEAR YEAR

Clean Earth	of Connecticut	Ticket:254	17435		
58 North Wa	shington Street		Date	Time	Scale
Plainville,	CT 06062	In:07/	09/2021	08:31:37	CECT
Ph:	Fax:	Out:07/	09/2021	08:31:37	CECT
			Lbs	. Tns	
Manifest:188	1276	Gross:	71,18	0 35.59	
Vehicle:604	36a	Tare:	37 <b>,</b> 82	0 18.91	
Decal:		Net:	33,36	0 16.68	
Customer:CISCO LLC Carrier: Generator:Town of Fairfield Profile #:214071532 Address:725 Old Post Road Job:Mill Hill Elementary School FAIRFIELD, CT 06824 Address:635 Mill Hill Terrace FAIRFIELD, CT 06824					
Material					
Recyclable soil	/rock/material				
Comment:					
Driver		Facility	Clean	Earth of Co	nnecticut
		Mark Tr	an		<u>.                                      </u>



2. GENERATOR'S PHONE 202 25C 2010	824	Mill Hi 635 Mil Fairfie	.11 Hill Terrace				
	4. US EPA ID NUMBER  NOT APPLICABLE	A. TRANSPORTER	'S PHONE	T	RANSPORTER'S PL	ATE NUMB	
Cisco Environmental, LLC 5. TRANSPORTER 2 COMPANY NAME	US EPA ID NUMBER	B. TRANSPORTER	752-25 'S PHONE		RANSPORTER'S PL	ATE NUMB	
7. DESIGNATED FACILITY NAME AND SITE ADDRESS	NOT APPLICABLE	( 000	00-00	00			
CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF CON 58 NORTH WASHINGTO PLAINVILLE, CT 06062		C. FACIL (860	) 747-8			
9. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, H.	AZARD CLASS, AND ID NUMBER		10, CON	TAINERS	II. TOTAL	12. UNI	
l.			NO.	TYPE	QUANTITY	WT/V	
CONNECTICUT REGULATED WASTE SC Approval: 214071532 G1	DLID, NONE, NONE Obal/Job #:1004865		001	DT	00020	Т	
ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E. HANDI	ING CODES F	OR WASTE	ES LISTED ABOVE		
SOIL CONTAMINATED WITH PETROLEU	M HYDROCARBONS		SO2		FINAL T57		
SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMA  GENERATOR'S CERTIFICATION: I hereby declare that the contents of this country.							
GENERATOR'S CERTIFICATION: I hereby declare that the contents of this const all respects in proper condition for transport by highway according to applicab polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor h free liquids at the time of loading. PRINTED/TYPED NAME	gament are fully and accurately described above by the national governmental regulations, and all applias been mixed in anyway with PCB's in concentration.	ne proper shipping name an eable State of Connecticut tions greater than or equal	l are classified, pa laws and regulat to 50 ppm. I cer	ickaged, mar ion. I certify tify that the	rked and labeled/placare y that this material ne e material listed above	fed, and are ither contai contained	
JOHN MArsilio	SGNATURE	un Can	;	Ď	MONTH DAY	YEA	
PROTECTIVE NAME OF THE PROPERTY OF MATERIAL PROPERT	S 81GNATURE	The state of the s	1	M	IONTH DAY	YEA	
TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME	S SIGNATURE		9	M	ONTH DAY	YEAI	
DISCREPANCY INDICATION SPACE							
11(a) CORRECTED WEIGHT AS SCALED 6	TON'S						
FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF V		NIFEST EXCEPT AS NO	TED IN ITEM	13.			
Mark	SIGNATURE	mal.		1000	DAY P	HEAR H	

Clean Earth	of Connecticut	Ticket:254	7966		
58 North Wa	shington Street		Date	Time	Scale
Plainville,	CT 06062	In:07/	09/2021	10:35:43	CECT
Ph:	Fax:	Out:07/	09/2021	10:35:43	CECT
			Lbs	. Tns	
Manifest:188	1269	Gross:	74,04	0 37.02	
Vehicle:604	36a	Tare:	37,54	0 18.77	
Decal:		Net:	36,50	0 18.25	
Customer:CIS	CO LLC	Carrier:			
Generator:Tow	n of Fairfield	Profile #:214	1071532		
Address:725	Old Post Road	Job:Mil	l Hill E	Elementary S	chool
FAI	RFIELD, CT 06824	Address:635	Mill Hi	ll Terrace	
		FAI	RFIELD,	CT 06824	
Material					
Recyclable soil/	rock/material				
Comment:					
Driver		Facility	Clean	Earth of Co	nnecticut
		Mark Tr	an		



-	LEANGARIN					
1.	75 Old Post Road Fairfield CT 068 GENERATOR'S PHONE 203-256-3010	324		ll <sup>generator's</sup> l Hill To ld	errace	825
3.	Cisco Environmental, LLC	US EPA ID NUMBER     NOT APPLICABLE	A. TRANSPORTER I	S PHONE 752-2558	66931	ATE NUMBER
5.	TRANSPORTER 2 COMPANY NAME XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	6. US EPAID NUMBER NOT APPLICABLE	B. TRANSPORTER 2		TRANSPORTER'S PL	ATE NUMBER
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF COM 58 NORTH WASHINGTO PLAINVILLE, CT 06062	ON STREET	c. facility's (860) 74		
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HA	ZARD CLASS, AND ID NUMBER		10. CONTAINE	TOTAL	12. UNIT WT/VOL
а.	CONNECTICUT REGULATED WASTE SO Approval: 214071532 G16	LID, NONE, NONE	5	001 D	T 00020	Т
b.						
C.	310110					
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE SOIL CONTAMINATED WITH PETROLEU	M HYDROCARBONS	E. HANDI	ING CODES FOR W	vastes listed above final T57	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMA	TION			· · · · · · · · · · · · · · · · · · ·	
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consi all respects in proper condition for transport by highway according to applicab polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor h free liquids at the time of loading. PRINTED/TYPED NAME	ole national governmental regulations, and all ap-	olicable State of Connecticut	laws and regulation.	I certify that this material	neither contains
-	Josho Marsilio	Jalan J	Van Qu	)	71	21
15.	PRINTED TYPED NAME  PEU Suuvels	SIGNATURE	Me		7 PAY	21
16,	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIAL PRINTED/TYPED NAME	LS SIGNATURE			MONTH DAY	YEAR
17.	DISCREPANCY INDICATION SPACE  11(a) CORRECTED WEIGHT AS SCALED 18,25	TON'S	1			
18.	FACILITY OWNER OR OPERATOR; CERTIFICATION OF RECEIPT OF PRINTED/TYPED NAME  Mack	WASTE MATERIALS COVERED BY THIS M SIGNATURE		OTED IN ITEM 13.	7 9	YEAR 24

Clean Earth of Conne	ecticut	Ticket:25	50817		
58 North Washington	Street		Date	Time	Scale
Plainville, CT 06062		In:07	/15/2021	09:38:00	CECT
Ph: F	ax:	Out:07	/15/2021	09:38:00	CECT
			Lbs	. Tn:	S
Manifest:1881272		Gross:	72,34	0 36.1	7
Vehicle:60436a		Tare:	37 <b>,</b> 86	0 18.93	3
Decal:		Net:	34,48	0 17.2	4
Customer:CISCO LLC		Carrier:			
Generator:Town of Fair	field	Profile #:21	4071532		
Address:725 Old Post	Road	Job:Mi	ll Hill E	Elementary	School
FAIRFIELD, C	CT 06824	Address:63	5 Mill Hi	.ll Terrace	2
		FA	IRFIELD,	CT 06824	
Material					
Recyclable soil/rock/materia	al				
Comment:					
Driver		Facility	Clean	Earth of Co	onnecticut
		Mark T	ran		_



6	LCANGARIN							
1.	GENERATOR'S NAME AND MAILING ADDRESS			GENERATOR	'S SITE ADDRESS			
2.		6824	Mill Hi 635 Mil Fairfie	l Hill '		325		
3.	TRANSPORTER I COMPA 20 34256-3010	4. US EPA ID NUMBER	A. TRANSPORTER I	'S PHONE	TRANSPORTER'S PL	ATE NUMBER		
		NOT APPLICABLE	( )		6043	6'A		
5.	CiscoerEnwironmental, LLC	6. US EPA ID NUMBER	B. TRANSPORTER 2	152N2558	TRANSPORTER'S PL.	ATE NUMBER		
		NOT APPLICABLE	( )					
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS	8. MAILING ADDRESS	000 (	000-0000	S PHONE			
**	CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	CLEAN EARTH OF CON 58 NORTH WASHINGTO PLAINVILLE, CT 06062			747-8888			
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME,	HAZARD CLASS, AND ID NUMBER		10. CONTAIN	NERS 11. TOTAL	12. UNIT		
a.				NO. T	YPE QUANTITY	WT/VOL		
d.	CONNECTICUT REGULATED WASTES	SOLID, NONE, NONE		001	OT 00020	Т		
Ь.	Approval: 214071532 G	lobal/Job #:1004865						
c.								
D,	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E. HAND	LING CODES FOR	: WASTES LISTED ABOVE			
	SOIL CONTAMINATED WITH PETROL	EUM HYDROCARBONS		SO2 T57				
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFOR	MATION						
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this all respects in proper condition for transport by highway according to app polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, a	dicable national governmental regulations, and all app	dicable State of Connecticu	it laws and regulatio	n. I certify that this material	neither contains		
	JOHN MAKSILIU	SIGNATURE	an liv		7 5	al YEAR		
15.	TRANSPORTER I ACKNOWLEDGEMENT OF RECEIPT OF MATE	RIALS			MONTH DAY	YEAR		
A	Ben Samuels	The Mills	16		7 15	21		
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATE PRINTED/TYPED NAME	RIALS			MONTH DAY	YEAR		
	TAINTIED INTE	Sidiyarea						
17.	DISCREPANCY INDICATION SPACE  11(a) CORRECTED WEIGHT AS SCALED	Y <sub>ron's</sub>						
18.	FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT PRINTED/TYPED NAME	OF WASTE MATERIALS COVERED BY THIS M SIGNATURE		NOTED IN ITEM 1	3. MONTH DAY	YEAR		
	Mark	SIGNATURE	1/2/1/		7 15	21		
			and the same					

	n of Connecticut ashington Street , CT 06062 Fax:		Date 20/2021	Time 09:05:16 09:05:16	Scale CECT CECT
F11.	rax.	040.077	20/2021	03.03.10	CECI
Manifest:188 Vehicle:604 Decal:		Gross: Tare: Net:	37 <b>,</b> 70	Tns 0 35.60 0 18.85 0 16.75	
Address:72	SCO LLC wn of Fairfield 5 Old Post Road IRFIELD, CT 06824	Address:635	l Hill E Mill Hi	Elementary S .ll Terrace CT 06824	chool
Material					
Recyclable soi Comment:	l/rock/material				
Driver		Facility Sondra		Earth of Cor	nnecticut



C	LEANEARTH	WASIE MANIE	201				
1.	GENERATOR'S NAME AND MAILING ADDRESS			GENERATO	R'S SITE	ADDRESS	
	Town of Fairfield		Mill Hi	11			
	75 Old Post Road		635 Mil	l Hill	Terr	ace	
	Fairfield CT 0	6824	Fairfie	ld		CT 068	325
3.	TRANSPORTER I COMPA 203#256-3010	4. US EPA ID NUMBER	A. TRANSPORTER I	'S PHONE	TRA	ANSPORTER'S PL	ATE NUMBER
		NOT APPLICABLE	( )		6	045	6.11
5.	Cisco Enwironmental, LLC	6. US EPA ID NUMBER	B. TRANSPORTER 2	752N255	8 TR/	ANSPORTER'S PLA	ATE NUMBER
	TRAINING COMMITTEE TO THE TRAINING THE TRA		( )				
	XXXXXXXXXXXXXXXXX	NOT APPLICABLE  8. MAILING ADDRESS	000 (	000-000		JE	
7.	DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT	CLEAN EARTH OF CO	NNECTICUT	0.554 0.000 0.000 0.000			
	58 NORTH WASHINGTON STREET	58 NORTH WASHINGT	ON STREET	(860)	747-8	888	
	PLAINVILLE, CT 06062	PLAINVILLE, CT 06062	2				
9.	US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME,	HAZARD CLASS, AND ID NUMBER		10. CONTA	UNERS	II. TOTAL	I2. UNIT
				NO.	TYPE	QUANTITY	WT/VOL
a.					10-10-2000	7379786	
	CONNECTICUT REGULATED WASTES	SOLID, NONE, NONE		001	DT	00020	Т
ь.	Approval: 214071532 G	lobal/Job #:100486	5				
C.							
D.	ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE		E. HAND			ES LISTED ABOVE	
	CONTRAMPLATED WITH DETROIT	ELIM HVDBOCA BRONS		INTERIM		T57	
	SOIL CONTAMINATED WITH PETROL	EUM HYDROCARBONS		SO2		13/	
					71	200	
13.	SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFOR	RMATION			20	221	
					77	100	
					V		
							contract contracts
14.	GENERATOR'S CERTIFICATION: I hereby declare that the contents of this all respects in proper condition for transport by highway according to app	olicable estional povernmental regulations, and all a	onlicable State of Connecticu	it laws and regular	tion, I certi	iv that this material	neither contains
	an respects in proper continuous in analysis of yingaway according to ap- polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, free liquids at the time of loading.	nor has been mixed in anyway with PCB's in conce	entrations greater than or equ	al to 50 ppm. I ce	rtify that th	e material listed abo	ve contained no
	PRINTED/TYPED NAME	SIGNATUR	E ' () `		1	MONTH DAY	YEAR
	Jayn (VIME())	SS 1	in lev			7 20	1
15.	TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATE	RIALS	-				,
46	PRINTED/TYPED AME	SIGNATUR	E /		1	7 20	YEAR
	Mar Samuel	1//////	WHI.			1 20	21
16.	TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATE	RIALS // WOO					1 22
	PRINTED/TYPED NAME	SIGNATUR	tE.		1	MONTH DAY	YEAR
17.	DISCREPANCY INDICATION SPACE	-					
	11(a) CORRECTED WEIGHT AS SCALED	) TON'S					
	11(a) CONNECTED WEIGHT AS SCALED						
18.	EACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIP			NOTED IN ITEM	113.	MONTH DAY	YEAR
	PRINTED TYPED NAMA	SIGNATUR	6			MONTH DAY	) /
	( ) an	54				1 2	1
						V .	

**APPENDIX F** 

	Α	В	С	D	Е	F	G	Н	I	J	K	L
1					UCL Statist	cs for Data	Sets with I	Non-Detects				
2												
3		User Selec	cted Options	S								
4	Date	Time of Co	mputation	ProUCL 5.	110/26/2021	2:12:58 PM						
5			From File	WorkShee	t.xls						-	
6		Full	Precision	OFF								
7	С	onfidence (	Coefficient	95%								
8	Number of	Bootstrap C	Operations	2000								
9												
10	Benzo(a)ar	nthracene										
11												
12						General S	Statistics					
13			Total		Observations	36				of Distinct Obs		16
14					er of Detects	9				Number of No		27
15			Nι		tinct Detects	9		_	Number	of Distinct No		8
16					imum Detect	0.29				Minimum No		0.23
17					imum Detect	2				Maximum No		0.36
18					nce Detects	0.414				Percent Nor		75%
19					lean Detects	0.736					D Detects	0.643
20					dian Detects	0.48					V Detects	0.875
21					ness Detects	1.586					s Detects	0.96
22				Mean of Log	ged Detects	-0.567				SD of Logge	d Detects	0.707
23												
24						al GOF Test	on Detect	•				
25					Test Statistic	0.691			•	lk GOF Test		
26			5% Sr	•	Critical Value	0.829	U	etected Data		al at 5% Signific	cance Leve	el
27			F		Test Statistic Critical Value	0.379		ata ata d Data		GOF Test		
28			51			0.274		nificance Lev		al at 5% Signifi	cance Leve	ei
29					elected Data	NOT NOTHIA	at 5 % Sig	micance Lev	GI		-	
30			Kanlan-M	eier (KM) S	tatistics usin	n Normal Cr	ritical Valu	es and other	Nonnaran	netric LICLs		
31			- Rapidis IVI	0,0, (1111) 0	KM Mean	0.357	Tuodi Vara	oo ana oano	·	Standard Erro	r of Mean	0.0661
32					KM SD	0.374		_		95% KM (B		0.49
				95%	KM (t) UCL	0.468		Q!	5% KM (Pe	ercentile Bootst	·	0.472
34 35					KM (z) UCL	0.465				5% KM Bootsti	• /	0.76
36			9		byshev UCL	0.555				5% KM Chebys		0.645
37					byshev UCL	0.77				9% KM Chebys		1.014
38					-			_		7 -		
39				G	amma GOF	Tests on De	tected Obs	servations Or	ıly			
40					Test Statistic	1.018			•	rling GOF Tes	t	
41				5% A-D C	Critical Value	0.73	Detecte	d Data Not G	amma Dist	tributed at 5%	Significand	e Level
42				K-S	Γest Statistic	0.323		Ko	lmogorov-	Smirnov GOF		
43				5% K-S C	Critical Value	0.282	Detecte	ed Data Not G	amma Dist	tributed at 5%	Significand	e Level
44				Detecte	d Data Not G	amma Distr	ibuted at 5	% Significan	ce Level			
45											-	
46					Gamma S	Statistics on	Detected I	Data Only			_	
47					k hat (MLE)	2.076			k st	tar (bias correc	ted MLE)	1.458
48				The	ta hat (MLE)	0.354		_	Theta st	tar (bias correc	ted MLE)	0.504
49				r	nu hat (MLE)	37.37				nu star (bias c	corrected)	26.25
50				Me	ean (detects)	0.736						
51												
52								ed Non-Detec				
53		G	ROS may r	not be used	when data se	t has > 50%	NDs with r	many tied obs	ervations a	at multiple DLs	3	

GROS may not be used when katar of detects is small such as =1,0, aspocially, when the sample size is small (e.g. <16-20)	7	A B C D E	F	G H I J K	L						
Page	54	GROS may not be used when kstar of detects is sr	mall such as	s <1.0, especially when the sample size is small (e.g., <15-2	0)						
For gamma distributed detected data, ETVs and Ucl. a may be computed using gamma distribution on KM estimates   0.191	55										
58         Minimum         0.01         Maximum         2         Maximum         0.01           599         Maximum         2         A Maximum         0.01           61         A Shari Mulalin         0.01         2.314           61         K hat (MLE)         0.352         Theta star (bias corrected MLE)         0.552           62         Adjusted Leviol of Significance (β)         0.0428         A star star (bias corrected MLE)         0.552           64         Adjusted Leviol of Significance (β)         0.0428         Adjusted Chi Square Value (24.22, β)         13.66           65         96% Gamma Approximate UCL (use when n>=50)         0.331         95% Camma Adjusted UCL (use when n>=50)         13.69           67         6         Estimatos of Camma Adjusted UCL (use when n>=50)         0.337         S Camma Adjusted UCL (use when n>=50)         13.69           69         Maximum (MM)         0.357         S Camma Adjusted UCL (use when n>=50)         0.377         S Camma Adjusted UCL (use when n>=50)         0.383           72         A Camma Maximum (MM)         0.357         S Camma Adjusted Chi Square Value (6 MQ)         0.351         N S S Camma Adjusted UCL (use when n>=50)         0.951         0.958         A D S S S S S S S S S S S S S S S S S S	56										
50         Maximum         50         4         Machine Mideling         0.21         2.314	57			y be computed using gamma distribution on KM estimates							
	58	Minimum	0.01	Mean	0.191						
	59	Maximum									
620         Theta hat (MLE)         0.552         Theta tar (bias corrected MLE)         0.589           63         nu hat (MLE)         24.97         nu star (bias corrected)         24.22           64         Adjusted Level of Significance (β)         0.0428         Adjusted Chi Square Value (24.22, β)         13.66           66         95% Gamma Approximate UCL (use when n=50)         0.331         95% Gamma Adjusted UCL (use when n-50)         0.338           68         Estimates         SD (KM)         0.357         SD (KM)         0.374           69         Mean (KM)         0.357         SD (KM)         0.374           70         Variance (KM)         0.14         SE of Mean (KM)         0.061           71         khat (KM)         0.91         k star (KM)         0.813           72         nu hat (KM)         0.92         nu hat (KM)         0.813           73         Mb (Marchian (KM))         0.981         99% gamma percentile (KM)         0.418           74         80% gamma percentile (KM)         0.131         99% gamma percentile (KM)         0.132           75         95% Gamma Approximate KM-UCL (use when n>=50)         0.443         8         Adjusted Chi Square Value (61.40, g)         44.38         Adjusted Chi Square Value (61.40, g) <th>60</th> <td></td> <td></td> <td></td> <td></td>	60										
64         Adjusted Level of Significance (β)         0.428         nu star (bias corrected)         24.22           64         Adjusted Level of Significance (β)         0.0428         Adjusted Chi Square Value (24.22, β)         13.66           65         95% Gamma Approximate UCL (use when n>=50)         0.331         95% Gamma Adjusted UCL (use when n<50)	61	· · · ·									
Adjusted Level of Significance (#)   0.0428	62										
65         Approximate Chi Square Value (24.22, α)         14.02         Adjusted Chi Square Value (24.22, β)         3.36 6           66         95% Gamma Approximate UCL (use when n≈50)         0.331         95% Gamma Adjusted UCL (use when n≈50)         0.339           67         Estimates of Gamma Estimates         Estimates of Gamma Estimates         SD (KM)         0.0374           69         Mean (KM)         0.14         SE of Mean (KM)         0.074           71         La hat (KM)         0.91         k star (KM)         0.853           72         nu hat (KM)         0.522         nu star (KM)         0.853           73         Best Marka (KM)         0.322         theta star (KM)         0.854           75         95% gamma percentile (KM)         0.131         99% gamma percentile (KM)         1.782           75         Approximate Chi Square Value (61.40, α)         44.38         Adjusted Chi Square Value (61.40, β)         43.72           78         Approximate Chi Square Value (61.40, α)         44.38         Adjusted Chi Square Value (61.40, β)         43.72           79         95% Gamma Approximate KM-UCL (use when n~50)         0.810         95% Gamma Adjusted KM-UCL (use when n~50         0.810           81         Lognormal Sullisiti Stariti Statistic         0.817         <	63			nu star (bias corrected)	24.22						
Second				A.F. + 101:0	40.00						
Page											
Fig.   Patrick   Patric	66	95% Gamma Approximate UCL (use when n>=50)	0.331	95% Gamma Adjusted UCL (use when n<50)	0.339						
Mean (KM)   0.357   SD (KM)   0.374	67			-							
Name					0.07.1						
Name	69										
72         nu hat (KM)         65.52 bit beta hat (KM)         nu star (KM)         0.14 bit beta hat (KM)         0.032 bit beta hat (KM)         0.0185           74         80% gamma percentile (KM)         1.131         99% gamma percentile (KM)         0.185           75         95% gamma percentile (KM)         1.131         99% gamma percentile (KM)         1.782           76         Face to a percentile (KM)         4.438         Adjusted Chi Square Value (61.40, c)         43.72           79         95% Gamma Approximate KM-UCL (use when n>=50)         0.494         95% Gamma Adjusted KM-UCL (use when n>=50)         0.501           80         Lognormal GDF Test to Detected Observations Only           81         Case Shapiro Wilk Test Statistics         0.817         Detected Data Not Lognormal at 5% Significance Level           82         Shapiro Wilk Critical Value         0.829         Detected Data Not Lognormal at 5% Significance Level           83         Shapiro Wilk Critical Value         0.274         Detected Data Not Lognormal at 5% Significance Level           84         Lognormal ROS Statistics with significance Level           85         Shapiro Wilk Critical Value         0.274         Mean in Log Scale         2.49           80         Descrip											
73         theta hat (KM)         0.392         theta star (KM)         0.418           74         80% gamma percentile (KM)         0.581         90% gamma percentile (KM)         0.854           75         95% gamma percentile (KM)         1.131         99% gamma percentile (KM)         0.854           76         Formal Manager (KM)         95% gamma percentile (KM)         1.131         99% gamma percentile (KM)         4.782           77         Gamma Kaplan-Meier (KM) Statistics         Approximate Chi Square Value (61.40, a)         44.38         Adjusted Chi Square Value (61.40, β)         43.72           79         95% Gamma Approximate KM-UCL (use when n>=50)         0.494         95% Gamma Adjusted KM-UCL (use when n<=50)	71	` /		` '							
1	72										
Page	73				I						
Agriculture											
Approximate Chi Square Value (61.40, α)   44.38   Adjusted Chi Square Value (61.40, β)   43.72		95% gamma percentile (KM)	1.131	99% gamma percentile (KM)	1.782						
Approximate Chi Square Value (61.40, a)   44.38   Adjusted Chi Square Value (61.40, β)   43.72	76	0	. Kamba M	sing (I/M) Chatiation							
95% Gamma Approximate KM-UCL (use when n>=50)	77										
Statistics using KM ean in Original Scale   Statistics using KM ean in Original Scale   Statistics using KM ean in Original Scale   Statistics using KM estimates											
81         Lognormal GOF Test on Detected Observations Only           82         Shapiro Wilk Test Statistics         0.817         Shapiro Wilk GOF Test           83         5% Shapiro Wilk Critical Value         0.829         Detected Data Not Lognormal at 5% Significance Level           85         5% Lilliefors Test Statistics         Detected Data Not Lognormal at 5% Significance Level           86         Detected Data Not Lognormal at 5% Significance Level           87         Special Speci		95% Gamma Approximate Kivi-UCL (use when n>=50)	0.494	95% Gamma Adjusted KM-UCL (use when n<50)	0.501						
82         Shapiro Wilk Test Statistic         0.817         Shapiro Wilk GOF Test           83         5% Shapiro Wilk Critical Value         0.829         Detected Data Not Lognormal at 5% Significance Level           84         Lilliefors Test Statistic         0.275         Lilliefors GOF Test           85         5% Lilliefors Critical Value         0.274         Detected Data Not Lognormal at 5% Significance Level           86         Detected Data Not Lognormal at 5% Significance Level         Lognormal ROS         Significance Level           87         Significance Level         Lognormal ROS         Statistics Using Imputed Non-Detects           89         Mean in Original Scale         0.227         Mean in Log Scale         2.49           90         SD in Original Scale         0.429         SD in Log Scale         1.371           91         95% t UCL (assumes normality of ROS data)         0.348         95% Percentile Bootstrap UCL         0.356           92         95% BCA Bootstrap UCL Log ROS)         0.409         95% Bootstrap t UCL         0.515           93         95% H-UCL (Log ROS)         0.409         Data and Assuming Lognormal Distribution         No.289           95         Statistics using KM estimates         Logged Data and Assuming Lognormal Distribution         No.289           96		Lamanus COS		atantad Ohana atiana Oalu							
83         5% Shapiro Wilk Critical Value         0.829         Detected Data Not Lognormal at 5% Significance Level           84         Lilliefors Test Statistic         0.275         Lilliefors GOF Test           85         5% Lilliefors Critical Value         0.274         Detected Data Not Lognormal at 5% Significance Level           86         Detected Data Not Lognormal at 5% Significance Level           87         Lognormal ROS Statistics           89         Mean in Original Scale         0.227         Mean in Log Scale         -2.49           90         SD in Original Scale         0.429         SD in Log Scale         1.371           91         95% t UCL (assumes normality of ROS data)         0.348         95% Percentile Bootstrap UCL         0.356           92         95% BCA Bootstrap UCL         0.394         95% Bootstrap UCL         0.515           93         95% H-UCL (Log ROS)         0.409         Data and Assuming Lognormal Distribution         KM Geo Mean         0.289           95         Statistics using KM estimates on Logged         0.513         95% Critical H Value (KM-Log)         1.92           98         KM Standard Error of Mean (logged)         0.513         95% Critical H Value (KM-Log)         0.389           99         KM Sta											
844         Lilliefors Test Statistic         0.275         Lilliefors GOF Test           85         5% Lilliefors Critical Value         0.274         Detected Data Not Lognormal at 5% Significance Level           86         Detected Data Not Lognormal at 5% Significance Level         377           88         Lognormal ROS Statistics Using Imputed Non-Detects         489           89         Mean in Original Scale         0.227         Mean in Log Scale         -2.49           90         SD in Original Scale         0.429         SD in Log Scale         1.371           91         95% t UCL (assumes normality of ROS data)         0.348         95% Percentile Bootstrap UCL         0.356           92         95% BCA Bootstrap UCL         0.394         95% Bootstrap UCL         0.515           93         95% H-UCL (Log ROS)         0.409         95% Bootstrap UCL         0.515           94         100         KM Mean (logged)         0.409         1.243         KM Geo Mean         0.289           97         KM Standard Error of Mean (logged)         0.513         95% Critical H Value (KM-Log)         1.92           98         KM Standard Error of Mean (logged)         0.513         95% Critical H Value (KM-Log)         1.92           100         KM Standard Error of Mean (logged)				·	, ol						
Section   Sec		<u>'</u>			vei						
Detected Data Not Lognormal at 5% Significance Level	-				vol.						
Rose				<u> </u>	vei						
Rose		Detected Data N	ot Lognom	tal at 5 % Significance Level							
Mean in Original Scale   0.227   Mean in Log Scale   -2.49		Lognormal BOS	Statistics I	leina Imputed Non-Detects							
SD in Original Scale   0.429   SD in Log Scale   1.371					-2 49						
91 95% t UCL (assumes normality of ROS data) 0.348 95% Percentile Bootstrap UCL 0.356 92 95% BCA Bootstrap UCL 0.394 95% Bootstrap t UCL 0.515 93 95% H-UCL (Log ROS) 0.409 94 95 Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution 96 KM Mean (logged) -1.243 KM Geo Mean 0.289 97 KM SD (logged) 0.513 95% Critical H Value (KM-Log) 1.92 98 KM Standard Error of Mean (logged) 0.0908 95% H-UCL (KM -Log) 0.389 99 KM SD (logged) 0.513 95% Critical H Value (KM-Log) 1.92 100 KM Standard Error of Mean (logged) 0.0908 101 102 DL/2 Statistics 103 DL/2 Normal DL/2 Log-Transformed 104 Mean in Original Scale 0.286 Mean in Log Scale -1.641 105 SD in Original Scale 0.405 SD in Log Scale 0.717											
92         95% BCA Bootstrap UCL (Log ROS)         0.394         95% Bootstrap t UCL (0.515)         0.515           93         95% H-UCL (Log ROS)         0.409         0.409         0.409         0.409         0.515         0.409         0.515         0.409         0.513         0.517         0.289         0.289         0.289         0.289         0.513         95% Critical H Value (KM-Log) (KM-Log) (MM-Log)		-									
93 95% H-UCL (Log ROS) 0.409  94 95 Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution  96 KM Mean (logged) -1.243 KM Geo Mean 0.289  97 KM SD (logged) 0.513 95% Critical H Value (KM-Log) 1.92  98 KM Standard Error of Mean (logged) 0.0908 95% H-UCL (KM -Log) 0.389  99 KM SD (logged) 0.513 95% Critical H Value (KM-Log) 1.92  100 KM Standard Error of Mean (logged) 0.0908  101  102 DL/2 Statistics  103 DL/2 Normal DL/2 Log-Transformed  104 Mean in Original Scale 0.286 Mean in Log Scale -1.641  105 SD in Original Scale 0.405 SD in Log Scale 0.717				' '							
94 95 Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution 96 KM Mean (logged) -1.243 KM Geo Mean 0.289 97 KM SD (logged) 0.513 95% Critical H Value (KM-Log) 1.92 98 KM Standard Error of Mean (logged) 0.0908 95% H-UCL (KM -Log) 0.389 99 KM SD (logged) 0.513 95% Critical H Value (KM-Log) 1.92 100 KM Standard Error of Mean (logged) 0.0908 101 102 DL/2 Statistics 103 DL/2 Normal DL/2 Log-Transformed 104 Mean in Original Scale 0.286 Mean in Log Scale -1.641 105 SD in Original Scale 0.405 SD in Log Scale 0.717				30 / D001011 ap 1 0 0 E	0.070						
95         Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution           96         KM Mean (logged)         -1.243         KM Geo Mean         0.289           97         KM SD (logged)         0.513         95% Critical H Value (KM-Log)         1.92           98         KM Standard Error of Mean (logged)         0.0908         95% H-UCL (KM -Log)         0.389           99         KM SD (logged)         0.513         95% Critical H Value (KM-Log)         1.92           100         KM Standard Error of Mean (logged)         0.0908         DL/2 Statistics           101         DL/2 Statistics           103         DL/2 Normal         DL/2 Log-Transformed           104         Mean in Original Scale         0.286         Mean in Log Scale         -1.641           105         SD in Original Scale         0.405         SD in Log Scale         0.717		22.3 332 (223 1.00)	21.00								
Section   Sect		Statistics using KM estimates o	n Loaaed (	Data and Assuming Lognormal Distribution							
SECTION   SECT					0.289						
98         KM Standard Error of Mean (logged)         0.0908         95% H-UCL (KM -Log)         0.389           99         KM SD (logged)         0.513         95% Critical H Value (KM-Log)         1.92           100         KM Standard Error of Mean (logged)         0.0908         0.0908         0.0908           101         DL/2 Statistics           102         DL/2 Normal         DL/2 Log-Transformed           104         Mean in Original Scale         0.286         Mean in Log Scale         -1.641           105         SD in Original Scale         0.405         SD in Log Scale         0.717		1 22 1									
SD   Normal   Normal											
100     KM Standard Error of Mean (logged)     0.0908       101     DL/2 Statistics       102     DL/2 Normal       103     DL/2 Normal       104     Mean in Original Scale     0.286     Mean in Log Scale     -1.641       105     SD in Original Scale     0.405     SD in Log Scale     0.717											
101   102   DL/2 Statistics     103   DL/2 Normal   DL/2 Log-Transformed   104   Mean in Original Scale   0.286   Mean in Log Scale   -1.641   105   SD in Original Scale   0.405   SD in Log Scale   0.717   105   SD in Log Scale   0.717   106   SD in Lo				2007							
102         DL/2 Statistics           103         DL/2 Normal         DL/2 Log-Transformed           104         Mean in Original Scale         0.286         Mean in Log Scale         -1.641           105         SD in Original Scale         0.405         SD in Log Scale         0.717		(353-9)									
103         DL/2 Normal         DL/2 Log-Transformed           104         Mean in Original Scale         0.286         Mean in Log Scale         -1.641           105         SD in Original Scale         0.405         SD in Log Scale         0.717			DL/2 St	atistics							
Mean in Original Scale 0.286 Mean in Log Scale -1.641  SD in Original Scale 0.405 SD in Log Scale 0.717		DL/2 Normal									
SD in Original Scale 0.405 SD in Log Scale 0.717			0.286		-1.641						
	100	( ::: :: : :: ::: :: ::: ::: ::: ::: ::									

	Α	В	С	D	Е	F	G	Н	- 1	J	K	L
107			DL/2 is n	ot a recommer	nded me	thod, provi	ded for comp	arisons and	d historica	l reasons	1	
108												
109				Non	parame	tric Distribu	tion Free UCI	_ Statistics				
110				Data do not foli	low a Dis	scernible D	istribution at	5% Signific	ance Leve	el .		
111												
112						Suggested	UCL to Use					
113			95%	KM (Chebyshe	ev) UCL	0.645						
114							J					
115	Note	: Suggestion	ns regarding	the selection o	of a 95%	UCL are pr	ovided to help	the user to	select the	e most appr	opriate 95%	UCL.
116			Reco	ommendations	are base	ed upon dat	a size, data d	istribution, a	and skewn	ess.		
117	The	se recomme	endations are	e based upon t	he result	s of the sim	nulation studie	s summariz	zed in Sing	gh, Maichle,	and Lee (20	06).
118	Howev	er, simulatio	ns results wi	ill not cover all	Real Wo	orld data se	ts; for additior	nal insight th	ne user ma	ay want to c	onsult a stat	istician.
119												
120	Benzo(a)py	yrene										
121												
122						General	Statistics					
123			Total No	umber of Obse	rvations	35			Number	of Distinct C	Observations	15
124									Number	of Missing C	bservations	1
125				Number of	Detects	10				Number of	Non-Detects	25
126			Num	ber of Distinct	Detects	9	-		Number	of Distinct	Non-Detects	8
127				Minimum	n Detect	0.28				Minimum	Non-Detect	0.23
128				Maximun	n Detect	1.9				Maximum	Non-Detect	0.36
129				Variance	Detects	0.296				Percent	Non-Detects	71.43%
130	Mean Detects 0.717 SD Detects										0.544	
131	Median Detects 0.57 CV Detects											0.759
132	Skewness Detects 1.636 Kurtosis Detects										1.711	
133			M	ean of Logged	Detects	-0.537				SD of Log	ged Detects	0.637
134												
135					Norma	al GOF Tes	t on Detects	Only				
136			Sha	piro Wilk Test	Statistic	0.756		S	Shapiro Wi	ilk GOF Tes	st	
137			5% Sha	piro Wilk Critica	al Value	0.842	Det	ected Data	Not Norma	al at 5% Sig	nificance Lev	/el
138				Lilliefors Test	Statistic	0.312			Lilliefors	GOF Test		
139			5%	Lilliefors Critica	al Value	0.262	Det	ected Data	Not Norma	al at 5% Sig	nificance Lev	/el
140				Detect	ted Data	Not Norma	ıl at 5% Signi	ficance Lev	el			
141												
142			Kaplan-Mei	er (KM) Statist	tics usin	g Normal C	Critical Values	and other	Nonparan	netric UCLs	ì	
143				K	M Mean	0.369			KM	Standard E	rror of Mean	0.0629
144					KM SD	0.353				95% KN	(BCA) UCL	0.501
145				95% KM	I (t) UCL	0.476		95	5% KM (Pe	ercentile Boo	otstrap) UCL	0.478
146			_	95% KM	(z) UCL	0.473			9	5% KM Boo	tstrap t UCL	0.621
147				% KM Chebysh		0.558					byshev UCL	0.643
148			97.59	% KM Chebysh	nev UCL	0.762			99	9% KM Che	byshev UCL	0.995
149												
150				Gamm	na GOF	Tests on De	etected Obser	vations On	ly			
151				A-D Test	Statistic	0.686				rling GOF 1		
152				5% A-D Critica	al Value	0.734	Detected da				5% Significa	nce Level
153				K-S Test	Statistic	0.237				-Smirnov G		
154				5% K-S Critica		0.269					5% Significa	nce Level
155				Detected data	appear	Gamma Di	stributed at 5	% Significa	nce Level			
156												
157				C	Gamma S	Statistics or	Detected Da	ita Only				
158				k ha	at (MLE)	2.603			k s	tar (bias cor	rected MLE)	1.889
159				Theta ha	at (MLE)	0.275			Theta s	tar (bias cor	rected MLE)	0.38

	Α	В	С	D E	F	G	Н	I	J	K	L			
160				nu hat (MLE	•				nu star (bias	corrected)	37.78			
161				Mean (detects	0.717									
162														
163				Gamma ROS	Statistics u	sing Impute	d Non-Dete	ects						
164				ot be used when data s			-							
165	GF	ROS may no		hen kstar of detects is						I (e.g., <15-2	0)			
166			Fors	such situations, GROS		-			BTVs					
167				This is espec										
168		For gamma	a distributed	detected data, BTVs a		y be compu	ited using g	amma distr	ibution on KM					
169				Minimun						Mean	0.212			
170				Maximun						Median	0.01			
171				SI						CV	2.02			
172				k hat (MLE			star (bias corr		0.343					
173				Theta hat (MLE	<u> </u>			I heta s	star (bias corre	· · ·	0.617			
174				nu hat (MLE	<b>'</b>				nu star (bias	s corrected)	24.03			
175				Level of Significance (β	<b>^</b>					(0.4.00, 0)				
176	0.5			Square Value (24.03, d				-	Square Value		13.51			
177	959	% Gamma A	pproximate	UCL (use when n>=50	0.367		95% Gam	ıma Adjusto	ed UCL (use v	wnen n<50)	0.377			
178		Estimates of Gamma Parameters using KM Estimates												
179		Mean (KM) 0.369 SD (KM)												
180		Variance (KM) 0.124 SE of Mean (KM)												
181											0.0629 1.022			
182				k hat (KM nu hat (KM	1		k star (KM) nu star (KM)							
183				·		theta star (KM)								
184	theta hat (KM) 0.337 theta sta 80% gamma percentile (KM) 0.593 90% gamma percenti										0.362 0.846			
185									· .	` ′	1.683			
186	95% gamma percentile (KM) 1.098 99% gamma percentile (KM)													
187 188				Gamn	na Kaplan-M	eier (KM) S	tatistics							
189		Appro	ximate Chi S	Square Value (71.52, α	· · · · · · · · · · · · · · · · · · ·		Adjusted Chi Square Value (71.52, β)							
190	95% G			UCL (use when n>=50	<u> </u>	95		•	M-UCL (use v	` ' '	52.3 0.505			
191		• • • • • • • • • • • • • • • • • • • •			,				•	/				
192				Lognormal GO	DF Test on D	etected Ob	servations (	Only						
193			Sh	apiro Wilk Test Statisti	0.897			Shapiro W	ilk GOF Test	<u> </u>				
194			5% Sha	apiro Wilk Critical Value	0.842	Dete	cted Data ap	pear Logn	ormal at 5% S	Significance L	.evel			
195				Lilliefors Test Statistic	0.194			Lilliefors	GOF Test					
196			5%	Lilliefors Critical Value	0.262	Dete	Detected Data appear Lognormal at 5% Significance							
197				Detected Data a	ppear Logno	rmal at 5%	Significance	e Level						
198														
199				Lognormal RC	S Statistics	Using Impu	ted Non-De	tects		_				
200				Mean in Original Scale	0.258				Mean ir	n Log Scale	-2.155			
201				SD in Original Scale	0.408					n Log Scale	1.236			
202		95% t UC		normality of ROS data				95% F	Percentile Boo	otstrap UCL	0.384			
203				5% BCA Bootstrap UC					95% Boot	strap t UCL	0.488			
204				95% H-UCL (Log ROS	0.446									
205														
206			Statistic	s using KM estimates		Data and A	ssuming Lo	gnormal D						
207				KM Mean (logged	•		Geo Mean	0.301						
208				KM SD (logged			e (KM-Log)	1.967						
209		K	(M Standard	Error of Mean (logged			_ (KM -Log)	0.414						
210				KM SD (logged				95% C	Critical H Valu	e (KM-Log)	1.967			
211		K	(M Standard	Error of Mean (logged	0.0946									
212														

	Α	В	С	D	Е	F	G	Н	ı	J	K	L	
213						DL/2 S	tatistics						
214			DL/2 N	lormal					DL/2 Log-1	Transformed	l		
215				Mean in C	riginal Scale	0.302				Mean i	n Log Scale	-1.582	
216				SD in C	riginal Scale	0.387				SD i	n Log Scale	0.749	
217			95% t UC	L (Assum	es normality)	0.412				95%	H-Stat UCL	0.36	
218			DL/2 is n	ot a recor	mmended me	ethod, provi	ded for com	parisons ar	nd historica	l reasons			
219													
220					Nonparame								
221				Detected	Data appear	Gamma Di	stributed at	5% Signific	ance Level				
222						0	1101 45 1155						
223			OE9/ KM	Adjusted	Commo LICI		UCL to Use	-	0E% CBOS	2 Adjusted C	Samma UCL	0.377	
224			95 /6 KIVI	Aujusteu	Gamma UCL	0.505			95 % GNO	o Aujusteu C	adillila UCL		
225	Note:	Suggestion	ns regarding	the select	ion of a 95%	LICL are pro	ovided to be	In the user	to select the	most annr	onriate 95%	UCI	
226	14010.	. Ouggestion			tions are bas						-	JOL.	
227	The	se recomme			pon the resul						and Lee (20	06)	
228 229					er all Real W								
230		, , , , , , , , , , , , , , , , , , , ,			/ •		,						
	Benzo(b)flu	oranthene											
232													
233	General Statistics  Total Number of Observations 35 Number of Distinct Observations												
234			Total N	umber of (	Observations			Number	of Distinct C	bservations	16		
235									Number	of Missing C	bservations	1	
236				Number of N	Non-Detects	27							
237	Number of Distinct Detects 8 Number of Distinct Non-Detects											8	
238	Minimum Detect 0.31 Minimum Non-Detect												
239				Max	imum Detect	1.7				Maximum	Non-Detect	0.36	
240					ance Detects						Non-Detects	77.14%	
241					lean Detects	0.744					SD Detects	0.493	
242					dian Detects	0.575					CV Detects	0.663	
243			_ =		ness Detects	1.382					osis Detects	0.897	
244			M	lean of Log	gged Detects	-0.462				SD of Log	ged Detects	0.597	
245					Name	-1 COF T	D	0.0-1.					
246			Cha	niro Wille			t on Detects	-	Chanira Wi	W COE Too	•		
247					Test Statistic Critical Value		D		<u> </u>	lk GOF Tes	nificance Lev	vol.	
248			J /0 OIId		Test Statistic		De	Jiccieu Dali		GOF Test	micarice Lev		
249 250			5%		Critical Value	0.333	D <sub>4</sub>	etected Data			nificance Lev	el l	
251			370		etected Data								
252							9.						
253			Kaplan-Mei	ier (KM) S	Statistics usir	ng Normal C	critical Value	es and othe	r Nonparan	netric UCLs			
254				•	KM Mean	0.348			KM	Standard E	rror of Mean	0.0558	
255					KM SD	0.309				95% KM	(BCA) UCL	0.462	
256				95%	6 KM (t) UCL	0.442		9	95% KM (Pe	ercentile Boo	otstrap) UCL	0.453	
257			•	95%	KM (z) UCL	0.439			9	5% KM Boo	tstrap t UCL	0.534	
258			909	% KM Che	byshev UCL	0.515			9	5% KM Chel	byshev UCL	0.591	
259			97.5	% KM Che	ebyshev UCL	0.696			99	9% KM Chel	byshev UCL	0.902	
260													
261					amma GOF		etected Obs	ervations C	nly				
262					Test Statistic					rling GOF T			
263					Critical Value		Detected				5% Significa	nce Level	
264					Test Statistic					Smirnov GO			
265				5% K-S (	Critical Value	0.296	Detected	data appea	Gamma Di	istributed at	5% Significa	nce Level	

7	Α	В	С	D	Е	F	G	Н		J	K	L		
266					data appear				ance Level					
267														
268					Gamma	Statistics or	Detected D	Data Only						
269					k hat (MLE)	3.166			k sta	ır (bias cor	rected MLE	2.062		
270				The	ta hat (MLE)	0.235			Theta sta	ır (bias cor	rected MLE	0.361		
271					nu hat (MLE)	50.66			ı	nu star (bia	s corrected	) 33		
272				Me	ean (detects)	0.744								
273														
274				G	iamma ROS	Statistics u	sing Impute	d Non-Detec	cts					
275		G	ROS may n	ot be used	when data se	t has > 50%	NDs with n	nany tied ob	servations a	t multiple [	DLs			
276	GF	ROS may no	ot be used w	hen kstar o	f detects is s	mall such a	s <1.0, espe	cially when	the sample s	size is sma	ıll (e.g., <15	-20)		
277			For	such situati	ons, GROS n	nethod may	yield incorre	ect values of	UCLs and B	BTVs				
278				Т	his is especia	ally true whe	n the sampl	e size is sma	all.					
279		For gamma	a distributed	d detected d	lata, BTVs ar	nd UCLs ma	y be compu	ted using ga	amma distrib	ution on Kl	M estimates			
280					Minimum	0.01					Mear	n 0.178		
281					Maximum	1.7					Mediar	n 0.01		
282					SD	0.384					CV	2.163		
283					k hat (MLE)	0.349			k sta	ar (bias cor	rected MLE	0.338		
284				The	ta hat (MLE)	0.51			Theta sta	ar (bias cor	rected MLE	0.526		
285					nu hat (MLE)	24.4			ī	nu star (bia	s corrected	23.64		
286			Adjusted	Level of Sig	nificance (β)	0.0425								
287		Appro	oximate Chi	Square Val	ue (23.64, α)	13.58		Ad	djusted Chi S	quare Valu	ie (23.64, β	13.21		
288	959	% Gamma A	Approximate	UCL (use v	when n>=50)	0.309		95% Gamma Adjusted UCL (use when n<50)						
289														
290	Estimates of Gamma Parameters using KM Estimates													
291					Mean (KM)	0.348				0.309				
292				Va	ariance (KM)	0.0952				0.0558				
293					k hat (KM)	1.27			1.18					
294					nu hat (KM)	88.87		nu star (KM						
295				th	eta hat (KM)	0.274			-	the	ta star (KM	0.295		
296			80%	gamma pe	rcentile (KM)	0.551			90% g	gamma per	centile (KM)	0.768		
297			95%	gamma pe	rcentile (KM)	0.983			99% g	gamma per	centile (KM)	1.475		
298														
299						a Kaplan-M	eier (KM) St							
300					ue (82.58, α)	62.64			ljusted Chi S					
301	95% G	amma Appr	oximate KM	-UCL (use v	when n>=50)	0.458	95	5% Gamma A	Adjusted KM	-UCL (use	when n<50	0.464		
302														
303					gnormal GO		etected Obs		-					
304					Test Statistic	0.911			Shapiro Will					
305			5% Sh		Critical Value	0.818	Detec	cted Data ap	pear Lognor		Significance	: Level		
306					Test Statistic	0.239	_		Lilliefors C		·			
307			5%		Critical Value	0.283			pear Lognor	mal at 5%	Significance	: Level		
308				Dete	cted Data ap	pear Logno	mal at 5% s	Significance	Level					
309					=									
310					gnormal ROS		Jsing Imput	ted Non-Det	ects			0.055		
311					riginal Scale	0.228					n Log Scale			
312		050/			riginal Scale	0.365					n Log Scale			
313		95% t UC			of ROS data)	0.332			95% Pe		otstrap UCL			
314					otstrap UCL	0.364				95% Boo	tstrap t UCL	0.424		
315				95% H-UC	L (Log ROS)	0.394								
316			O			1	<b>.</b>							
317			Statistic		M estimates of		Jata and As	ssuming Log	normal Dist		<u> </u>			
318				KM M	ean (logged)	-1.239				KI	/I Geo Mear	0.29		

1	А В	C D E	F	G H	I J K	L					
319	'	KM SD (logged)	0.5		95% Critical H Value (KM-Log)	1.942					
320	k	(M Standard Error of Mean (logged)	0.0904		95% H-UCL (KM -Log)	0.388					
321		KM SD (logged)	0.5		95% Critical H Value (KM-Log)	1.942					
322	k	(M Standard Error of Mean (logged)	0.0904								
323		'									
324			DL/2 S	atistics							
325		DL/2 Normal			DL/2 Log-Transformed						
326		Mean in Original Scale	0.275		Mean in Log Scale	-1.649					
327		SD in Original Scale	0.342		SD in Log Scale	0.712					
328		95% t UCL (Assumes normality)	0.373	95% H-Stat UCL							
329		DL/2 is not a recommended met	hod, provi	ded for comparisons a	nd historical reasons						
330											
331		Nonparametr	ric Distribu	tion Free UCL Statistic	es						
332		Detected Data appear (	Gamma Di	stributed at 5% Signific	cance Level						
333											
334		S	Suggested	UCL to Use							
335		95% KM Adjusted Gamma UCL	0.464		95% GROS Adjusted Gamma UCL	0.318					
336											
337	Note: Suggestion	ns regarding the selection of a 95% L	JCL are pro	ovided to help the user	to select the most appropriate 95% L	JCL.					
338		Recommendations are base	d upon dat	a size, data distribution	, and skewness.						
339	These recomme	endations are based upon the results	of the sim	ulation studies summa	rized in Singh, Maichle, and Lee (200	06).					
340	However, simulation	ons results will not cover all Real Wor	rld data se	s; for additional insight	the user may want to consult a statis	stician.					
341											
342	Indeno(1,2,3-cd)pyren	е									
343					_						
344			General	Statistics							
345		Total Number of Observations	35		Number of Distinct Observations	14					
346					Number of Missing Observations	1					
347		Number of Detects	7		Number of Non-Detects	28					
348		Number of Distinct Detects	6		Number of Distinct Non-Detects	8					
349		Minimum Detect	0.33		Minimum Non-Detect	0.23					
350		Maximum Detect	1.1		Maximum Non-Detect	0.36					
351		Variance Detects	0.0934		Percent Non-Detects	80%					
352		Mean Detects	0.571		SD Detects	0.306					
353		Median Detects	0.45		CV Detects	0.535					
354		Skewness Detects	1.239		Kurtosis Detects	-0.115					
355		Mean of Logged Detects	-0.666		SD of Logged Detects	0.478					
356											
357		Norma	I GOF Tes	t on Detects Only							
358		Shapiro Wilk Test Statistic	0.78		Shapiro Wilk GOF Test						
359		5% Shapiro Wilk Critical Value	0.803	Detected Dat	a Not Normal at 5% Significance Leve	el					
360		Lilliefors Test Statistic	0.357		Lilliefors GOF Test						
361		5% Lilliefors Critical Value	0.304	Detected Dat	a Not Normal at 5% Significance Leve	el					
362		Detected Data I	Not Norma	I at 5% Significance Le	evel						
363											
364		Kaplan-Meier (KM) Statistics using	Normal C	ritical Values and othe	er Nonparametric UCLs						
365		KM Mean	0.298		KM Standard Error of Mean	0.034					
366		KM SD	0.186		95% KM (BCA) UCL	0.382					
367		95% KM (t) UCL	0.356		95% KM (Percentile Bootstrap) UCL	0.363					
368		95% KM (z) UCL	0.354		95% KM Bootstrap t UCL	0.402					
369		90% KM Chebyshev UCL	0.4		95% KM Chebyshev UCL	0.447					
370	07 50 144 0 1 1 101 0 544										
371						0.637					
3/1											

1	А	В	С	D E		F	G	Н	I		J		K	L
372				Gamma G	OF T	ests on De	etected Obser	vations Onl	y					
373				A-D Test Stati	istic	0.699		And	erson-Da	arling	GOF T	est		
374				5% A-D Critical Va	alue	0.71	Detected da						gnificar	ice Level
375				K-S Test Stati	istic	0.335		Kol	mogorov	v-Smir	nov G(	)F		
376				5% K-S Critical Va		0.313		Data Not Ga			ed at 5°	% Sigr	nificano	e Level
377			D€	tected data follow	Appr.	. Gamma	Distribution at	t 5% Signifi	cance Le	evel				
378														
379							Detected Da	ta Only						
380			,	k hat (M	•	4.88		_			ias corı			2.884
381				Theta hat (M		0.117		_	Theta					0.198
382				nu hat (M	•	68.32				nu s	tar (bia	s corre	ectea)	40.38
383				Mean (dete	ects)	0.571								
384				Camma P	00 e	tatistics w	sing Imputed I	Non Dotoct	C					
385		GR	OS may no	t be used when dat						at mi	ultinla F	ıl e		
386	GR			en kstar of detects									<15.0	20)
387	- CIT	Oo may not		uch situations, GRO								ıı (e.g.	, <10-2	.0)
388		_	1010				n the sample			<i>a b i v c</i>		_		
390		For gamma	distributed	detected data, BTV		•				ributio	n on KI	∕l estir	nates	
391		g		Minim		0.01	,						Mean	0.123
392				Maxim	num	1.1						М	edian	0.01
393					SD	0.261							CV	2.133
394				k hat (M	1LE)	0.389			k s	star (b	ias corı	ected	MLE)	0.375
395				Theta hat (M		0.315			Theta	0.327				
396			,	nu hat (M	1LE)	27.25				26.25				
397	A.F													
398		Approx	imate Chi S	quare Value (26.25	5, α)	15.57		Adjı	usted Ch	i Squa	re Valu	e (26.	25, β)	15.18
399	95%	6 Gamma Ap	proximate l	JCL (use when n>=	=50)	0.207		95% Gamm	a Adjust	ted UC	L (use	when	n<50)	0.212
400							ı							
401				Estimates of	of Gar	mma Parai	meters using l	KM Estimat	es					
402				Mean (I	KM)	0.298						SD	(KM)	0.186
403				Variance (I		0.0347					SE of	Mean	(KM)	0.034
404				k hat (l		2.57							(KM)	2.369
405				nu hat (I	•	179.9		nu star (						165.8
406				theta hat (I		0.116		theta star (K						0.126
407				jamma percentile (l		0.438		90% gamma percentile (KN						0.558
408			95% (	jamma percentile (I	r(VI)	0.672	99% gamma percentile (KI						(KIVI)	0.921
409				C	mma	Kanlan M	eier (KM) Stat	tietice						
410		Annrovi	mate Chi Sc	uare Value (165.82		137	eiei (Min) 2191		sted Chi	Sauer	میناد/\ م	(165	82 BN	135.8
411	95% Ca			JCL (use when n>=		0.361	Q5.0/.	Gamma A				-		0.364
412	33 /0 Gd	пппа другол	AIIIIGIG KIVI-	COL (USE WITCH II/-	30)	0.001	35 /6	, Janina A	ajusieu N	NVI-UU	L (use	*VIICII	11-00)	0.504
413				l ognormal	GOF	Test on D	etected Obse	rvations Or	ılv					
414 415			Sha	piro Wilk Test Stati		0.837			napiro W	Vilk GO	OF Tes	t		
415		_		piro Wilk Critical Va		0.803	Detecte	ed Data app	•				cance I	_evel
417				Lilliefors Test Stati		0.306	2.2.310		Lilliefors			J		
417			5%	Lilliefors Critical Va		0.304	Detec	ted Data No				gnifica	nce Le	vel
419				etected Data appea										
420				,,,				<u> </u>						
421				Lognormal	ROS	Statistics	Using Imputed	d Non-Dete	cts				-	
422				Mean in Original So	cale	0.183					Mean i	n Log	Scale	-2.25
423				SD in Original So	cale	0.24					SD i	n Log	Scale	1.01
424		95% t UCL	(assumes	normality of ROS d	ata)	0.251			95% F	Percer	ntile Bo	otstrap	UCL	0.253
							1							

A	Α	В	С	D	E	F	G	Н	I	J	K	Г
425			95	5% BCA Boo	tstrap UCL	0.267				95% Boot	strap t UCL	0.299
426				95% H-UCL	(Log ROS)	0.269						
427												
428			Statistic	s using KM	estimates of	on Logged (	Data and As	ssuming Lo	gnormal Dis	tribution		
429				KM Me	an (logged)	-1.308				KN	I Geo Mean	0.27
430				KM S	SD (logged)	0.378			95% Cı	ritical H Valu	ie (KM-Log)	1.852
431		k	KM Standard	Error of Me	an (logged)	0.069		L (KM -Log)	0.327			
432				KM S	SD (logged)	0.378		1.852				
433		k	KM Standard	Error of Me	an (logged)	0.069						
434												
435						DL/2 S	tatistics					
436			DL/2 N	Vormal					DL/2 Log-T	ransformed		
437				Mean in Ori	•						n Log Scale	-1.732
438				SD in Ori	iginal Scale	0.219					n Log Scale	0.581
439				CL (Assumes	• ,	0.286					H-Stat UCL	0.256
440			DL/2 is r	not a recom	mended me	ethod, provid	ded for com	iparisons ar	nd historical	reasons		
441												
442						tric Distribu						
443			Detec	ted Data ap	pear Appro	ximate Gan	ıma Distribu	uted at 5%	Significance	e Level		
444												
445						Suggested	UCL to Use					
446			95% KM	Adjusted G	amma UCL	0.364			95% GROS	Adjusted G	amma UCL	0.212
447												
448			When a data				,	•	•			
449	W	hen applica	ble, it is sug	gested to us	e a UCL ba	sed upon a	distribution	(e.g., gamm	na) passing	both GOF te	ests in ProU0	CL
450												
451	Note	: Suggestion						·			priate 95% l	JCL.
452				commendation								
453				•							and Lee (20	
454	Howev	er, simulatio	ons results w	vill not cover	all Real Wo	orld data set	s; for addition	onal insight	the user ma	y want to co	onsult a stati	stician.
455												

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