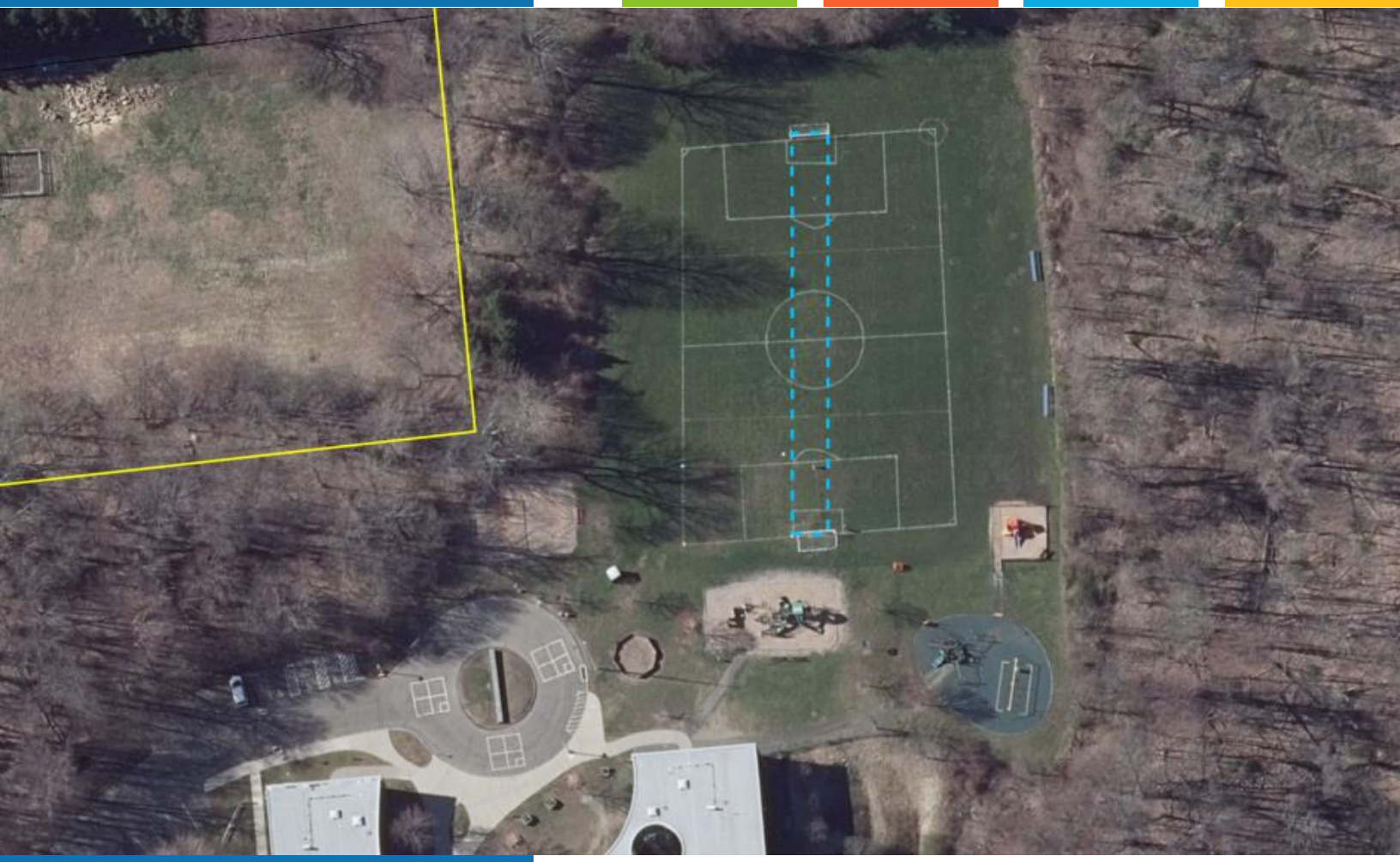

Burr Elementary School
1960 Burr Street, Fairfield, CT

Remedial Action/ Verification Report

Town of Fairfield

June 2022

Tighe&Bond

100% Recyclable

June 29, 2022

Jade Barber
Department of Energy and Environmental Protection
Bureau of Water Protection and Land Reuse
Remediation Division
79 Elm Street
Hartford, CT 06106-5127

Re: **Burr Elementary School – 1960 Burr Street**
Remedial Action/Verification Report
Julian Fill Projects, Fairfield, CT

Dear Ms. Barber:

On behalf of the Town of Fairfield, enclosed is the Remedial Action/Verification Report for investigation and remediation of Julian Fill and affected soil at Burr Elementary School located at 1960 Burr Street in Fairfield, CT. This report is being submitted in accordance with the requirements of Consent Order 2020002DEEP, dated October 26, 2020 between the Town of Fairfield and the CT Department of Energy and Environmental Protection (CTDEEP).

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

Very truly yours,

TIGHE & BOND, INC.

James T. Olsen, PG, LEP
Vice President

cc: Brenda Kupchick, First Selectwoman – Town of Fairfield
Thomas Bremer – Chief Administration Officer – Town of Fairfield
Michael Miller – Wiggin & Dana

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Tighe&Bond

Appendices

Section 1
Introduction

By way of background, in 2019, the Town of Fairfield Health Department began its evaluation of the potential use of "Julian Fill" [1] at locations within the Town's municipal boundaries during 2013 – 2016. Town Health Department staff gathered relevant information from communications with staff from the Town Public Schools and Parks and Recreation, Public Works, Conservation and Engineering Departments. In addition, Town Health Department staff obtained and reviewed over 180 invoices / tickets purportedly showing the removal of "Julian Fill" from the Town's former Reclamation Yard, then operated by Julian Development, LLC d/b/a Julian Enterprises, to identify locations within the Town's municipal boundaries where Julian Fill potentially was placed during the relevant time. Town Health Department staff also gleaned information from certain Town resident inquiries about various projects occurring in Town rights of way and easements during this time. From these sources of information, Town Health Department staff developed and now maintains a list of locations where it is believed that Julian Fill could have been improperly placed. Burr Elementary School was identified as a location where Julian Fill was potentially placed.

The following is the Remedial Action/Verification Report summarizing investigation and remediation of "Julian Fill" at Burr Elementary School located at 1960 Burr Street in Fairfield, Connecticut (Site). The investigation and remediation described in this Remedial Action/Verification Report was performed in accordance with the Consent Order 2020002DEEP, dated October 26, 2020, by and between the Town of Fairfield and the Connecticut Department of Energy and Environmental Protection (CTDEEP) and the Remedial Action Plan (RAP) dated December 21, 2021. Remediation of the Site was completed on December 28, 2021.

[1] This term refers to the materials that were processed by Julian Development, LLC d/b/a Julian Enterprises at the Town's former Reclamation Yard, located at 1 Richard White Way, Fairfield, Connecticut, circa 2013-2016 and improperly placed at certain Town locations.

Section 2
Site Description

2.1 Site Location, Improvements, and History

The Site is located at 1960 Burr Street in Fairfield, Connecticut and consists of the goalie areas and centerline of the athletic soccer field. A Site location map is provided as Figure 1 (Appendix A). The real property comprising the Site is known as Burr Elementary School, which encompasses approximately 15.75 acres. A Site plan is provided as Figure 2.

Based upon the investigation described in Section 1 above, an unknown volume of Julian Fill was used at the Site sometime between 2013 and 2016 as under dressing at the goalie areas and along the center line of the athletic field to level the grade prior to covering with new sod and/or seed.

2.2 Groundwater Quality Classification

According to the CTDEEP Water Quality Classifications Map of Fairfield, Connecticut (October 2018), groundwater at the Site is classified as GA. Groundwater classified as GA is presumed suitable for drinking or other domestic uses without treatment.

2.3 Julian Fill Usage

Based on research conducted by the Town, information provided by Town personnel (including George Kaczegowicz, General Supervisor of Streets), field observations conducted by Tighe & Bond, and confirmatory sampling performed by Tighe & Bond, Julian Fill was used as under dressing at the goalie areas and along the center line of the athletic field to level grade prior to covering with new sod and/or seed. Based on the Town's research, consisting of a review of Fairfield Public Works work tickets and Julian Enterprises invoices and discussions with Town Public Works and Conservation personnel, an unknown volume of Julian Fill was used at the Site sometime between 2013 and 2016. The location at the Site where the Julian Fill was placed is shown in Figure 2.

Section 3
Site Investigations

3.1 Sampling Protocols

Tighe & Bond conducted Site investigations of the subject Julian Fill location in August 2019 and August 2021. The Site investigation completed in 2019 was done prior to the issuance of the Consent Order. The Site investigation completed in August 2021 was done in accordance with the Consent Order and included the collection of samples at 20-foot spacing overlaying the Julian Fill area, as shown on Figure 3. A total of 22 hand test pits were advanced, of which 14 were within the reported Julian Fill location.

During the Site investigations, a soil sample was collected from each hand test pit and analyzed for constituents of concern (COCs) known to be present in Julian Fill including extractable total petroleum hydrocarbons (ETPH), polycyclic aromatic hydrocarbons (PAHs), arsenic, lead, polychlorinated biphenyls (PCBs), pesticides, and/or asbestos in soil. To evaluate potential leaching of COCs, certain samples were additionally analyzed for arsenic, lead, and pesticides using the Synthetic Precipitation Leaching Procedure (SPLP). During sampling, the subject material was also observed for the presence of asbestos containing materials (ACM), which is also known to be a constituent of Julian Fill. Tighe & Bond did not identify potential ACM (PACM).

Of the 22 samples collected, 14 were collected within the reported Julian Fill location. The remaining samples were collected from background locations (three samples) or within three playground areas at the request of the Town of Fairfield Board of Education to evaluate subsurface conditions (five samples). It was confirmed that the playground areas were not Julian Fill placement locations and the data obtained from these associated samples was not relevant to the objectives of the Julian Fill investigation.

Investigation soil samples were collected in accordance with CTDEEP guidance and Tighe & Bond standard operating procedures (SOPs) and submitted under proper chain-of-custody to the receiving laboratory. Hand test pit equipment was decontaminated between sampling locations. All samples were collected with dedicated nitrile gloves and placed into appropriate laboratory-supplied containers, chilled on ice, and were extracted and analyzed within the method specific holding time. Duplicate samples were collected on a frequency of one per 20 samples or 5 percent. A discussion of Quality Control/Quality Assurance for sampling and laboratory analyses is provided in Section 8.

After collection, sampling points were located in the field using a field tablet and R1 GPS locating unit. This data was subsequently uploaded into Tighe & Bond's GIS program for mapping and presentation.

3.2 Laboratory Analyses

Laboratory analyses were conducted in accordance with CTDEEP's Reasonable Confidence Protocols (RCPs) by Phoenix Environmental Laboratory (Phoenix) of Manchester, CT. Asbestos in soil samples were submitted to EAS of Elmsford, NY for analysis. Analytical methods that were followed are listed on Table 1 (Appendix B) for each COC. A Data Quality Assessment / Data Usability Evaluation (DQA/DUE) was completed for the data to ensure that Quality Control / Quality Assurance (QA/QC) was maintained and is presented in Section 8.

Laboratory data was received from the laboratory in electronic data deliverable (EDD) format for direct upload into Tighe & Bond's EnviroData data management program for data post processing, comparison to cleanup criteria, and export to the GIS mapping program.

Section 4
Regulatory Criteria

The Remediation Standard Regulations (RSRs) are set forth in Sections 22a-133k-1 through 22a-133k-3 of the RCSA, adopted January 1, 1996 and amended on June 27, 2013 and February 16, 2021. The RSRs contain criteria for the remediation of soil and groundwater. Further, in accordance with the Consent Order, Julian Fill that is determined to meet the definition of "solid waste" must be removed to satisfy Connecticut's Solid Waste Management requirements, Chapter 446d of the General Statutes and RCSA §§ 22a-209-1, et seq. If the material is determined to be "clean fill," however, Connecticut's Solid Waste Management requirements do not apply to the location that is the subject of investigation – that is, because the material that was identified to be Julian Fill is not in fact "solid waste." Furthermore, the CTDEEP provided concurrence during a November 16, 2021 meeting with Tighe & Bond that targeted removal of Julian Fill that does not meet the definition of "clean fill" was acceptable. Meeting minutes from the November 16, 2021 meeting are provided in Appendix C.

The CTDEEP soil remediation criteria integrate two risk-based goals:

- Direct Exposure Criteria (DEC) to protect human health and the environment from risks associated with direct exposure (ingestion) to contaminated soil.
- Pollutant Mobility Criteria (PMC) to protect groundwater quality from contaminants that migrate or leach from the soil to groundwater. Soils to which both criteria apply must be remediated to a level, which is equal to the more stringent criteria.

4.1 Direct Exposure Criteria

CTDEEP has established specific numeric exposure criteria for a broad range of contaminants in soil. The DEC applies to accessible soil to a depth of 15 feet. The DEC for substances other than PCBs does not apply to inaccessible soil at a release area, provided that, if such inaccessible soil is less than 15 feet below the ground surface, an environmental use restriction (EUR)[2] is in effect with respect to the subject release area in accordance with the RSRs. For PCBs, a maximum concentration of 10 milligrams per kilogram (mg/Kg) can remain in soils to be considered inaccessible, provided that an ELUR is in effect the subject area complies with the other applicable DEC provisions in the RSRs. Inaccessible soil generally means polluted soil, which is the following:

- More than 4 feet below the ground surface;
- More than 2 feet below a paved surface comprised of a minimum of three inches of bituminous pavement or concrete;
- Beneath a paved surface comprised of a minimum of three inches of bituminous concrete or concrete polluted only with concentrations of semi-volatile substances or petroleum hydrocarbons, normal constituents of bituminous concrete, in excess of applicable DEC and metals concentrations that are less than two times the applicable DEC;

[2] "Environmental Use Restriction" is defined to include both a Notice of Activity and Use Limitation (NAUL) and an Environmental Land Use Restriction (ELUR). Conn. Gen. Stat. § 22a-133n.

- Beneath an existing building;
- Beneath another permanent structure(s) approved by the CTDEEP Commissioner; or
- Buildings can be constructed and/or clean fill can be placed over contaminated soils rendering them inaccessible.

CTDEEP has established two sets of DEC using exposure assumptions appropriate for residential land use (RES DEC) or for industrial and certain commercial land use (I/C DEC). In general, all locations to which the RSRs apply are required to be remediated to the residential criteria. If the industrial/commercial land use criteria are applicable and used, an EUR (NAUL or ELUR) is required to be in effect in accordance with the RSRs.

4.2 Pollutant Mobility Criteria

The PMC that apply to remediation of a site depends on the groundwater classification of the site. The purpose of these criteria is to prevent contamination to groundwater in "GA" classified areas, and to prevent unacceptable further degradation to groundwater in "GB" classified areas.

The applicable PMC for the Site is the PMC for a "GA" classified area. The PMC generally applies to all soil within the unsaturated zone, which represents the soil located from the ground surface to the seasonal low-water table in "GA" classified areas. The criteria do not apply to environmentally isolated soils that are polluted with substances other than VOCs provided an EUR is recorded for the release area which ensures that such soils will not be exposed (unless approved in writing by the CTDEEP Commissioner). Environmentally isolated soils are defined as certain contaminated soils, which are above the seasonal high-water table, beneath an existing building and not a source of on-going contamination. An EUR must be recorded for the site, which ensures that such soils will not be exposed by building demolition or other activities. Buildings can be constructed over contaminated soils rendering them environmentally isolated.

Remediation based upon the listed PMC requires that a substance in soil, other than an inorganic substance or PCBs, be remediated to at least that concentration at which the results of a mass analysis of soil for such substances does not exceed the PMC applicable to the groundwater classification (i.e., GA) of the area in which the soil is located (default PMC). An inorganic substance (metals) or PCBs in soil must be remediated to at least that concentration at which the analytical results of leachate produced from either the Toxicity Characteristic Leaching Procedure (TCLP) or the Synthetic Precipitation Leaching Procedure (SPLP) does not exceed the PMC applicable to the groundwater classification of the area in which the soil is located.

In addition, the RSRs provide an alternate method for compliance with the PMC. For polluted soils within a GA groundwater area, an SPLP or TCLP concentration of a substance in soil may be remediated to the groundwater protection criteria (GWPC) or ten-times the groundwater protection criteria in certain GA areas.

Section 5
Investigation Results

A summary of the results from the investigations of the Julian Fill at Burr Elementary School in August 2019 and August 2021 is as follows:

- ETPH was not detected at concentrations above the laboratory reporting limits in any soil sample.
- Arsenic was detected at concentrations ranging from 3.6 mg/Kg to 5.85 mg/Kg, which are below the RES DEC of 10 mg/Kg. Further analysis using the SPLP method did not identify concentrations of leachable arsenic above the laboratory reporting limit, indicating compliance with the GA PMC.
- Lead was detected at concentrations ranging from 10.9 mg/Kg to 26.3 mg/Kg, which are below the RES DEC of 400 mg/Kg. Further analysis using the SPLP method did not identify concentrations of leachable lead above the laboratory reporting limit, indicating compliance with the GA PMC.
- PCBs were not detected at concentrations above the laboratory reporting limits in any soil sample.
- Pesticides were detected in three of five samples analyzed with concentrations of total DDT and/or dieldrin above the numerical GA PMC. Soil that was collected from these locations was additionally evaluated for pesticides using the SPLP. Leachable dieldrin was detected in sample BES 201 (0-0.5') at a concentration of 0.007 µg/L, which was above the optional GA PMC (i.e., GWPC) of 0.002 µg/L.
- Several individual PAH compounds were detected in soil samples BES S3 (0-0.5') and BES S4 (0-0.5') at concentrations below their respective RES DEC and GA PMC.
- Asbestos was not detected in any soil samples. In addition, PACMs were not identified during the investigation.

A summary of soil investigation analytical data is provided in Table 1, along with a comparison of soil data to the RSRs described in the previous section. Laboratory data reports are provided in Appendix E. The locations of the soil samples are provided on Figure 3.

Background Sampling

Given the potential for the historical placement of fill material, Tighe & Bond collected background samples from the shallow soil outside the reported Julian Fill area. A total of three background samples were collected (BES BACK 1 through BES BACK 3) and analyzed for COCs known to be present in Julian Fill, including ETPH, PAHs, arsenic, lead, and pesticides. Each sample location was also evaluated for PACM. A summary of the background sampling is as follows:

- ETPH was not detected at concentrations above the laboratory reporting limits in any soil sample.
- Arsenic was detected at concentrations ranging from 3.57 mg/Kg to 4.09 mg/Kg, which are below the RES DEC of 10 mg/Kg.

- Lead was detected at concentrations ranging from 12.0 mg/Kg to 13.6 mg/Kg, which are below the RES DEC of 400 mg/Kg.
- Pesticides were not detected at concentrations above the laboratory reporting limits in any soil sample.
- PAHs were not detected at concentrations above the laboratory reporting limits in any soil sample.
- PACMs were not identified in any background soil sampling location.

Non-Julian Fill Investigation Sampling

As previously discussed, Tighe & Bond also collected a total of five samples from three playground areas located at Burr Elementary School at the request of the Town of Fairfield Board of Education to evaluate subsurface conditions. According to the Town of Fairfield research, Julian Fill was not used at these locations, and as such, the soil data collected from these areas is not relevant to the Julian Fill investigation. A summary of the investigation analytical data of this sampling is provided in Table 2, along with a comparison of soil data to the RSRs described in the previous section. Laboratory reports are provided in Appendix E. The locations of the soil samples are provided on Figure 3.

As indicated on Table 2, only arsenic and lead were detected in these samples at naturally occurring concentrations below RSR criteria.

Remedial Objectives

Based on the Town's research and Tighe & Bond's investigation, Julian Fill was placed at the goalie areas and along the center line of the athletic field. The Julian Fill was identified within the upper six inches of soil and consisted of brown sand with some silt and trace gravel. The extent of the Julian Fill requiring remediation (above RSR criteria) is shown on Figure 4 and is approximately 20 feet by 20 feet by 0.5 feet below ground surface (bgs). Representative photographs are provided in Appendix D.

Based on these results, remediation was determined to be necessary within the southern goalie area (at investigation sample location BES 201). Remediation was planned to achieve compliance with the requirements of the Consent Order, which requires removal of Julian Fill that does not meet the definition of "clean fill" and soil affected at concentrations above the applicable RSR criteria and/or background. The RES DEC and GA PMC are the applicable cleanup criteria for the Site. Remedial actions are described in the next section.

Section 6
Remedial Action

6.1 Julian Fill Removal and Post Excavation Sampling

Julian Fill and affected soil were remediated following the procedures detailed in the December 21, 2021 Site RAP. The excavation plan from the RAP that was used for the planning of the remediation is included in this Remedial Action/Verification Report as Figure 4. The area requiring remediation consisted of the shallow soils within the southern goalie area (at investigation sample location BES 201) where pesticides were detected above the GA PMC. Remediation activities were completed by CISCO, LLC (CISCO) of New Haven, CT, a CTDEEP-permitted spill cleanup contractor, CT-HW-877.

Prior to the commencement of remedial activities, Tighe & Bond collected soil samples from the presumed extents of the proposed excavation for pre-confirmation. Four samples were collected from the vertical extents of the impact (BES 201A through BES 201D) and one sample was collected from the horizontal extent of the impact (BES 201, 0.5-1'). Each sample was analyzed for ETPH, lead, arsenic, PCBs, pesticides, and PAHs. One sample that contained concentrations of PAHs and pesticides above the numerical GA PMC was additionally analyzed for these COCs using the SPLP method. Based on the testing completed, one PAH compound (benzo(b)fluoranthene) was detected in the west pre-confirmation sample above the RES DEC. As such, the proposed remedial area was augmented to extend beyond this location to excavate the PAH impact. The pre-confirmation sample locations are shown on Figure 5 and a summary of analytical results along with analytical methods is summarized in Table 3. Laboratory data reports are provided in Appendix E.

On December 28, 2021, the Julian Fill and affected soil were excavated and direct loaded into a truck. A total of 14.56 tons of Julian Fill and affected soil, were excavated and transported to the Clean Earth facility located in Plainville, CT, a CTDEEP-permitted soil recycling and treatment facility, CTDEEP 110021-CRW, 146-0042/146-0143. The facility was previously approved for disposal by CTDEEP staff. Tighe & Bond observed the excavation and guided the removal of Julian Fill. Tighe & Bond observed the excavation and guided the removal of Julian Fill based, in part, on the results of the pre-confirmation samples.

The final excavation measured approximately 26 feet by 20 feet to a depth of 0.5 feet bgs. Final excavation limits are shown on Figure 5. Photographs taken during the excavation activities are included as Appendix D. The fully executed waste manifest and facility weight ticket are included in Appendix F.

Tighe & Bond collected at total of six post-excavation soil samples (including one duplicate) from the bottom and sidewalls of the Julian Fill excavation in accordance with the sampling plan concurred by CTDEEP in an email dated June 14, 2021. Sidewall samples were collected from depths between 0 feet and the corresponding bottom of the excavation of 0.5 feet bgs and were no more than 20 feet spaced from each other. Samples were submitted to Phoenix for analysis of COCs including ETPH, PAHs, arsenic, lead, PCBs, and pesticides. Each sample was also analyzed for pesticides by the SPLP

method to confirm that the leachable pesticide impact identified during the investigation was remediated. In addition, detections of arsenic and lead were further evaluated for leachability using the SPLP method to determine compliance with the GA PMC. A representative number of samples (approximately 30%) that exhibited the highest concentrations of each COC were analyzed by this method. Post-excavation sample locations are shown on Figure 5 and a summary of analytical results along with analytical methods is summarized in Table 3. Laboratory data reports are provided in Appendix E.

A summary of the soil analytical results is as follows:

- ETPH was not detected at concentrations above the laboratory reporting limits in any soil sample.
- Arsenic was detected at concentrations ranging from 3.23 mg/Kg to 4.21 mg/Kg, which are below the RES DEC of 10 mg/Kg. Further analysis using the SPLP method did not identify concentrations of leachable arsenic above the laboratory reporting limit, indicating compliance with the GA PMC.
- Lead was detected at concentrations ranging from 8.89 mg/Kg to 15.3 mg/Kg, which are below the RES DEC of 400 mg/Kg. Further analysis using the SPLP method did not identify concentrations of leachable lead above the laboratory reporting limit, indicating compliance with the GA PMC.
- PCBs were not detected at concentrations above the laboratory reporting limits in any soil sample.
- Pesticides were detected in sample BES 306S (0-0.5') with concentrations of total DDT above the numerical GA PMC. SPLP testing that was completed on all samples did not identify concentrations of leachable pesticides above the laboratory reporting limits, indicating compliance with the optional GA PMC (i.e., GWPC).
- PAHs were not detected at concentrations above the laboratory reporting limits in any soil sample.
- PACMs were not identified during the remediation.

The excavation was backfilled in February 2022.

6.2 Sampling Protocols

Post excavation soil samples were collected in accordance with CTDEEP guidance and Tighe & Bond standard operating procedures and submitted under proper chain-of-custody to the receiving laboratory. All samples were collected and placed into appropriate laboratory-supplied containers and chilled on ice and were extracted and analyzed within the method specific holding time. Duplicate samples were collected on a frequency of one per 20 samples or 5 percent. A discussion of Quality Control/Quality Assurance for sampling and laboratory analyses is provided in Section 8.

6.3 Air Monitoring

Daily total particulate (dust) air monitoring using real time monitors was conducted during excavation activities. The dust monitors were placed in two locations (up and

down wind of the work area) to document CISCO's use of appropriate dust controls and effectiveness. This was accomplished using two monitoring units, conducting real-time monitoring of dust levels during remediation using TSI DUSTTRAK 8530 air monitoring instruments and Netronix Thiamis 1000 telemetry units (or equivalent) to determine if levels are below those specified for the project. Each monitor was equipped with a wireless telemetry system capable of sending alerts to the project monitor's cellular telephone using a web-based application should the Action Level be exceeded. During the remediation project Action Levels were not exceeded.

Section 7
Conceptual Site Model

An initial conceptual site model (CSM) was submitted to CTDEEP by Tighe & Bond on April 16, 2020 describing COCs that are expected to be encountered during investigation and remediation of locations where Julian Fill was placed. The CSM provided below is intended to supplement the April 16, 2020 CSM, and a similar CSM will be presented for each Julian Fill location as additional data is gathered through investigation and remediation activities required in connection with Consent Order 2020002DEEP. The following CSM is specifically tailored for the Site-specific conditions at Burr Elementary School.

7.1 Description of the Site, Environments, and AOCs

A description of the Site, environments, and AOCs is provided in Section 2. There is one AOC at the Site: the area where Julian Fill was reportedly used in connection with under dressing at the goalie areas and along the center line of the athletic field to level the grade prior to covering with new sod and/or seed sometime between 2013 and 2016.

7.2 Nature and Extent of Contamination at the Site

As discussed in Section 2.3, based on the Town's research, an unknown volume of Julian Fill was used at the Burr Elementary School athletic soccer field sometime between 2013 and 2016. The area that was targeted for remediation consisted of the shallow soils within the southern goalie area, as shown in Figure 4.

Based on field observations and investigation sampling completed by Tighe & Bond, PAHs, arsenic, lead, and pesticides were detected in the Julian Fill and/or underlying soil. Initially, pesticides were the only COC detected above the GA PMC; however, pre-confirmatory sampling (prior to remediation) also identified a concentration of one PAH compound above the RES DEC. ETPH and PCBs were not detected and PACMs were not observed in the Julian Fill and underlying soil.

Although an unknown volume of Julian Fill was used at the Site, the volume is not suspected to be significant considering the purpose of the use (to replenish soil in high use areas). A total of 14.56 tons of Julian Fill and affected soil above regulatory standards were removed from the Site during remedial actions, as discussed in Section 6.

The remediation observed by Tighe & Bond and post-excavation soil sampling confirms that all the Julian Fill (that was not shown to meet the definition of "clean fill") and affected soil containing pesticides and PAHs above RSR criteria have been removed. Based on this and the results of the investigation sampling, there is no longer a risk posed with human exposure to Julian Fill at the Site.

7.3 Potential Release Mechanisms and Migration Pathways at the Site

Julian Fill was used at the Burr Elementary School athletic field and was reportedly placed at goalie areas and along the center line of the athletic soccer field, as shown in Figure 3. The shallow soil within the southern goalie area contained concentrations of pesticides and PAHs above RSR criteria. The remediation discussed in Section 6 was successful in removing the Julian Fill (that was not shown to meet the definition of "clean fill") and affected soil with impacts above RSR criteria. Tighe & Bond did not observe any migration pathways due to soil erosion or overland flow.

Although pesticides were detected above the GA PMC in one sample collected from the Site, corresponding samples collected from beneath this sample location did not contain concentrations of pesticides (including leachable pesticides) above the laboratory reporting limits. As such, the potential leaching of pesticides to the groundwater is not a concern.

Section 8 Quality Assurance / Quality Control

During the investigations and remedial activities conducted by Tighe & Bond, sufficient Quality Assurance/Quality Control (QA/QC) procedures were followed to conduct a Data Quality Assessment (DQA) and Data Usability Evaluation (DUE), as required by the CTDEEP Laboratory QA/QC DQA & DUE Guidance Document, dated May 2009, revised December 2010. The following provides a discussion of the DQA/DUE conducted for the data obtained by Tighe & Bond.

Based on the information provided in this section, it is Tighe & Bond's opinion that the site-specific Data Quality Objectives (DQOs) have been met.

A summary of results from QA/QC samples, including duplicate samples, are included in the sections below.

8.1 Data Quality Objectives

DQOs for the environmental investigations and remedial actions were developed to ensure that a sufficient quantity and quality of analytical data were obtained in order to:

- Determine if a release has taken place;
- Determine if contamination is present in the environment at concentrations exceeding the applicable RSR criteria;
- Support a defensible conclusion that the horizontal and vertical extent of contamination has been adequately delineated; and,
- Support a defensible conclusion that a release area has been remediated such that the post-remediation concentrations of COCs comply with the RSRs.

The soil samples obtained during Tighe & Bond's investigations and remedial activities were analyzed per the RCP methods to demonstrate sufficient quality of data.

8.2 DQA/DUE for Investigation and Non-Investigation Results

The investigation and non-investigation data was provided within three laboratory reports from Phoenix. Samples were collected between August 2019 and August 2021. These samples were analyzed using the RCP methods. The RCP Case Narratives of the laboratory reports indicate that minor QA/QC nonconformities were identified and are summarized below. Laboratory data reports are provided in Appendix E. The following briefly summarizes the findings of the DUE; see Table 4 for details:

- The QA/QC Certification Forms for each of the three laboratory reports indicate that each report met the requirements for "Reasonable Confidence", except that not all RCP metals and RCP SVOCs were requested on the chain of custodies; only COCs at the site were submitted for analysis. With the consideration above, all data used for the investigation of the site met the requirements for "Reasonable Confidence".

- Proper Chain of Custody protocols were utilized for all laboratory reports, including recordation of signatures, dates, and times documenting custody changes.
- All samples were received by the laboratory below 6°C.
- All reporting limits were met.
- All samples were analyzed within holding times for the various parameters.
- COCs associated with the site were not detected in any of the laboratory blanks.
- All laboratory control samples (LCS) were within the method specific limits for COCs associated with the Site except for the following:
    - For lab report GCD89521 some samples reported LCS/LCSD recovery and RPD values for CT ETPH and PAH surrogates and naphthalene outside of method criteria. The affected analytes were either not reported in the respective samples or detected at concentrations sufficiently below criteria; therefore, no significant bias is suspected.
- All surrogates were within acceptable limits for the various parameters except for:
    - For Lab report GCD89521 CT ETPH surrogates were reported outside of method criteria. Target analyte QC data was acceptable; therefore, no significant bias is suspected.
- Matrix spike and matrix spike duplicates were within method specific limits for COCs associated with the Site.
- Other significant QA/QC non-conformities were not noted.

Asbestos in soil results were provided within two laboratory reports from Eastern Analytical Services, Inc., CT NVLAP Lab Code 101646-0. Samples were collected in August and September 2019. The analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method.

8.3 DQA/DUE for Remediation Results

The remediation data was provided within two laboratory reports from Phoenix. Remediation samples were collected in December 2021. These samples were analyzed using the RCP methods. The RCP Case Narratives of the laboratory reports indicates that minor QA/QC nonconformities were identified and are summarized below. The following briefly summarizes the findings of the DUE:

- The QA/QC Certification Forms for each of the two laboratory reports indicate that each report met the requirements for "Reasonable Confidence", except that not all RCP metals and RCP SVOCs were requested on the chain of custodies; only COCs at the site were submitted for analysis. With the consideration above, all data used for the investigation of the site met the requirements for "Reasonable Confidence".
- Proper Chain of Custody protocols were utilized for all laboratory reports, including recordation of signatures, dates, and times documenting custody changes.

- All samples were received by the laboratory below 6°C.
- All reporting limits were met.
- All samples were analyzed within holding times for the various parameters.
- COCs associated with the site were not detected in any of the laboratory blanks.
- All laboratory control samples (LCS) were within the method specific limits for COCs associated with the Site except for the following:
    - For lab reports GCJ93594 and GCK06455 some samples reported LCS/LCSD recovery and RPD values for pesticides and/or pesticide surrogate outside method criteria. The analytes in question were not reported in the respective samples and/or target analyte QC data was acceptable; therefore, no significant bias is suspected.
- All surrogates were within acceptable limits for the various parameters except for:
    - For Lab report GCK06455 the CT ETPH surrogates were reported outside of method criteria. Target analyte QC data was acceptable; therefore, no significant bias is suspected.
- Matrix spike and matrix spike duplicates were within method specific limits for COCs associated with the Site.
- Other significant QA/QC non-conformities were not noted.

8.4 Duplicate Samples

Field duplicate samples are collected to provide information on data reproducibility. The duplicate samples were obtained by collecting two identical sets of soil samples from a single sample location. The respective duplicate samples were analyzed for the same parameters analyzed in the original sample. The comparison is a measurement of analytical precision, measured as Relative Percent Difference (RPD) as defined within the CTDEEP Laboratory Quality Assurance and Quality Control Guidance Document, dated May 2009, revised December 2010.

During investigation and non-investigation activities less than twenty samples were collected; as such, duplicate samples were not collected. During remediation activities, one duplicate sample was collected: BES-302B (parent sample BES-301B). The samples were analyzed for arsenic, lead, CT ETPH, PCBs, Pesticides, SPLP pesticides, and PAHs. All analytes with the exception of arsenic and lead were not reported above laboratory reporting limits. The RPD values between the duplicate and parent sample for arsenic and lead were below 20%. Based on our data evaluation, the data appear useable for their intended purpose.

Section 9
LEP Opinion

Tighe & Bond conducted investigations of the Julian Fill and underlying soil at the Site in accordance with prevailing standards and guidelines. The COCs associated with the Julian Fill have been identified and the extent and degree of contamination from Julian Fill and associated impacts to underlying soil has been defined.

Based on the Town's research, an unknown volume of Julian Fill was used at the Site as under dressing at the goalie areas and along the center line of the athletic field to level the grade prior to covering with new sod and/or seed sometime between 2013 and 2016, as shown on Figure 3. Remediation was completed within the southern goalie area where pesticides and PAHs were detected above the GA PMC and RES DEC, respectively. Approximately 14.56 tons of Julian Fill and affected soil with impacts above RSR criteria have been removed from the Site, as observed and confirmed by Tighe & Bond. Based on the results of the investigation and post-excavation sampling, the remaining soil at the Site complies with the RSRs and meets the definition of "clean fill".

Although concentrations of pesticides were above the GA PMC in one shallow soil sample, corresponding samples that were collected beneath this sample location did not contain concentrations of pesticides (including leachable pesticides) above the laboratory reporting limits. As such, the potential leaching of pesticides to the groundwater is not a concern and groundwater monitoring is not necessary.

It is the opinion of this LEP that the investigation of the above-described area of the Site where Julian Fill was previously placed has been completed in accordance with prevailing standards and guidelines and that such pollution has been remediated in accordance with the RSRs and requirements of Consent Order 2020002DEEP.

J.T.O.

James T. Olsen, PG, LEP#178
Project Director, LEP of Record

6/29/22

Date

Section 10
Certification

I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, that the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information is punishable as a criminal offense under §53a-157b of the Connecticut General Statutes and any other applicable law.

Honorable Brenda Kupchick
First Selectwoman – Town of Fairfield

6-28-22
Date

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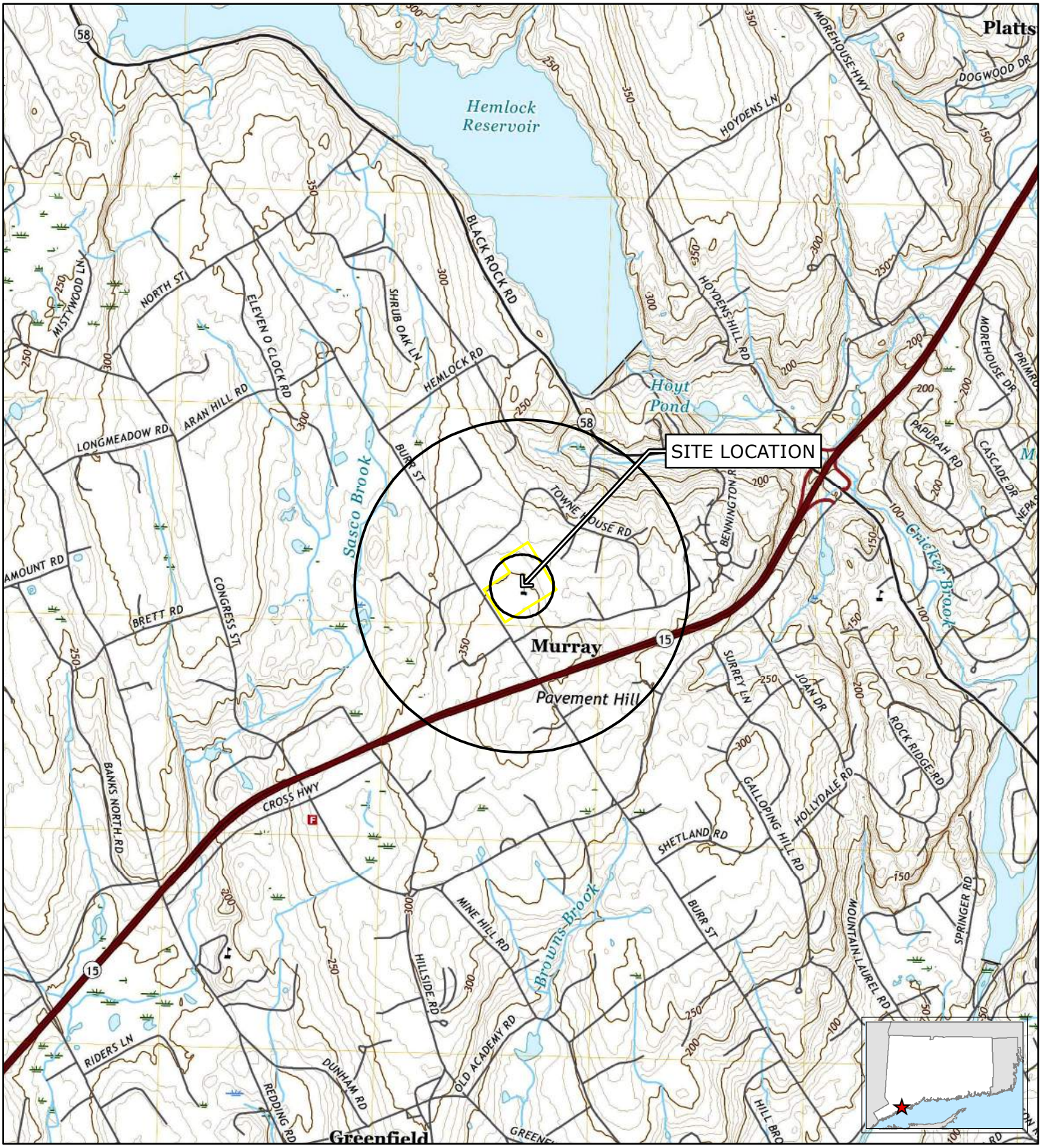
APPENDIX A



LEGEND

Approximate Site Parcel

Tighe&Bond

Based on USGS Topographic Map for Westport, CT Revised 2021.
Contour Interval Equals 10 feet.
Downloaded from ngmdb.usgs.gov/topoview
Circles indicate 500-foot and half-mile radii

1:24,000

0 1,000 2,000

Feet

N

FIGURE 1
SITE LOCATION MAP

Burr School
1960 Burr Street
Fairfield, Connecticut

January 2022

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F-0439

FIGURE 2
SITE PLAN

LEGEND

- Reported Area of Julian Fill Usage
- Approximate Site Parcel
- Approximate Parcel Boundary

According to the Town of Fairfield research, Julian Fill was used as yearly under dressing done in goalie area (replace small amount under sod/grass to make area level-all areas covered with new sod/grass seed) small amounts of topsoil used.

LOCUS MAP

0 60
Feet
1 " = 60 '

NOTES

1. Based on September 2013 Imagery, Courtesy of Google Earth.

Burr School
1960 Burr Street
Fairfield, Connecticut

March 2022

Tighe&Bond
Engineers | Environmental Specialists

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FIGURE 3
SAMPLING LOCATIONS

LEGEND

- Investigation Sample Location
- Playground Sample Location (Non-Investigation Sample)
- Pesticides Exceed GA PMC & SPLP Pesticides Exceed GWPC
- Reported Area of Julian Fill Usage
- Approximate Site Parcel
- Approximate Parcel Boundary

According to the Town of Fairfield research, Julian Fill was used as yearly under dressing done in goalie area (replace small amount under sod/grass to make area level-all areas covered with new sod/grass seed) small amounts of topsoil used.

LOCUS MAP

0 60
Feet
1 " = 60 '

NOTES

1. Based on September 2013 Imagery, Courtesy of Google Earth.

Burr School
1960 Burr Street
Fairfield, Connecticut

March 2022

Tighe&Bond
Engineers | Environmental Specialists

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FIGURE 4
PRE-REMEDIATION SOIL EXCAVATION PLAN

EXCAVATION PLAN

EXCAVATION TO BE GUIDED BY TIGHE & BOND PERSONNEL.

SOIL TO BE EXCAVATED AND DIRECT LOADED FOR TRANSPORTATION AND DISPOSAL.

EXCAVATION LIMITS MAY VARY BASED ON CONFIRMATION ANALYTICAL DATA.

TOTAL EXCAVATION VOLUME IS ESTIMATED TO BE APPROXIMATELY 12 TONS.

LEGEND

- Investigation Sample Location
- Playground Sample Location (Non-Investigation Sample)
- Pesticides Exceed GA PMC & SPLP Pesticides Exceed GWPC
- Reported Area of Julian Fill Usage
- Approximate Excavation Limits
- Approximate Site Parcel
- Approximate Parcel Boundary

According to the Town of Fairfield research, Julian Fill was used as yearly under dressing done in goalie area (replace small amount under sod/grass to make area level-all areas covered with new sod/grass seed) small amounts of topsoil used.

LOCUS MAP

0 60
Feet
1 " = 60 '

NOTES

1. Based on September 2013 Imagery, Courtesy of Google Earth.

Burr School
1960 Burr Street
Fairfield, Connecticut

March 2022

Tighe&Bond
Engineers | Environmental Specialists

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FIGURE 5
FINAL EXCAVATION LIMITS & POST EXCAVATION SAMPLE LOCATIONS

LEGEND

- Post-Excavation Sample Location
- Pre-Confirmation Sample Location
- Investigation Sample Location
- Playground Sample Location (Non-Investigation Sample)
- Pesticides Exceed GA PMC & SPLP Pesticides Exceed GWPC
- PAHs Exceed RES DEC & GA PMC
- Reported Area of Julian Fill Usage
- Approximate Excavation Limits
- Approximate Site Parcel
- Approximate Parcel Boundary

According to the Town of Fairfield research, Julian Fill was used as yearly under dressing done in goalie area (replace small amount under sod/grass to make area level-all areas covered with new sod/grass seed) small amounts of topsoil used.

LOCUS MAP

0 60
Feet
1 " = 60 '

NOTES

1. Based on September 2013 Imagery, Courtesy of Google Earth.

Burr School
1960 Burr Street
Fairfield, Connecticut

March 2022

Tighe&Bond
Engineers | Environmental Specialists

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Tighe&Bond

APPENDIX B

TABLE 1
Summary of Investigation Analytical Data
Burr Elementary School
Fairfield, Connecticut
Last Updated: 03/01/2021 (JLL)

Tighe&Bond

Sample ID	CTDEEP RSR Criteria			US EPA	BES BACK 1	BES BACK 2	BES BACK 3	BES S1	BES S2	BES S3	BES S4	Excavated BES201	BES202	BES203	BES204	BES205	BES206	BES207	BES208	BES209	BES210
Sample Depth					0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
Sample Date	RES	GA	GWPC		8/24/21	8/24/21	8/24/21	8/21/19	8/21/19	8/21/19	8/21/19	8/24/21	8/24/21	8/24/21	8/24/21	8/24/21	8/24/21	8/24/21	8/24/21	8/24/21	8/24/21
Lab Sample ID	DEC	PMC			CJ12765	CJ12766	CJ12767	CD89521	CD89522	CD89523	CD89524	CJ12755	CJ12756	CJ12757	CJ12758	CJ12759	CJ12760	CJ12761	CJ12762	CJ12763	CJ12764
Lab Report ID					GCJ12755	GCJ12755	GCJ12755	GCD89521	GCD89521	GCD89521	GCD89521	GCJ12755	GCJ12755	GCJ12755	GCJ12755	GCJ12755	GCJ12755	GCJ12755	GCJ12755	GCJ12755	GCJ12755
Asbestos PLM 198.1²																					
% Amosite	NA	NA	NA	NA	-	-	-	0.0%	0.0%	0.0%	0.0%	-	-	-	-	-	-	-	-	-	-
% Chrysotile	NA	NA	NA	NA	-	-	-	0.0%	0.0%	0.0%	0.0%	-	-	-	-	-	-	-	-	-	-
% Other	NA	NA	NA	NA	-	-	-	0.0%	0.0%	0.0%	0.0%	-	-	-	-	-	-	-	-	-	-
% Total Asbestos	NA	NA	NA	1%	-	-	-	0.0%	0.0%	0.0%	0.0%	-	-	-	-	-	-	-	-	-	-
Total Metals 6010D (mg/Kg)																					
Arsenic	10	NA	NA	NA	3.67	3.57	4.09	4.16	3.6	5.85	3.91	-	-	5.1	-	-	-	-	3.98	-	-
Lead	400	NA	NA	NA	12.0	12.1	13.6	12.3	10.9	26.3	22.1	-	-	16.2	-	-	-	-	13.4	-	-
SPLP Metals 6010D (mg/L)																					
Arsenic	NA	0.05	NA	NA	-	-	-	-	-	-	-	-	-	<0.004	-	-	-	-	-	-	-
Lead	NA	0.015	NA	NA	-	-	-	-	-	-	-	-	-	<0.010	-	-	-	-	-	-	-
CTETPH 8015D (mg/Kg)	500	500	NA	NA	<66	<67	<68	<58	<59	<59	<71	-	-	<68	-	-	-	-	<77	-	-
PCBs SW8082A (mg/Kg)																					
Total PCBs	1	NA	NA	NA	-	-	-	<0.39	<0.39	<0.39	<0.47	-	<0.220	<0.230	<0.220	-	<0.250	<0.220	<0.260	<0.210	-
Pesticides 8081B (mg/Kg)																					
DDD, 4,4-	NE	NE	NA	NA	<0.0017	<0.0018	<0.0018	-	-	-	-	<0.0018	-	0.0071	-	<0.0018	-	-	<0.0020	-	<0.0020
DDE, 4,4-	NE	NE	NA	NA	<0.0017	<0.0018	<0.0018	-	-	-	-	0.02	-	0.027	-	0.0042	-	-	<0.0020	-	<0.0020
DDT, 4,4-	NE	NE	NA	NA	<0.0017	<0.0018	<0.0018	-	-	-	-	0.013	-	0.043	-	0.008	-	-	<0.0020	-	<0.0030
DDT (Total)	*1.8*	*0.003*	NA	NA	ND	ND	ND	-	-	-	-	*0.033*	-	0.077	-	0.0122	-	-	ND	-	ND
Dieldrin	0.038	0.007	NA	NA	<0.0043	<0.0045	<0.0045	-	-	-	-	0.019	-	0.012	-	0.0073	-	-	<0.0051	-	<0.0049
SPLP Pesticides 8081B (ug/L)																					
Dieldrin	NA	NA	0.002	NA	-	-	-	-	-	-	-	**0.007**	-	<0.002	-	<0.002	-	-	-	-	-
PAHs SW8270D (mg/Kg)																					
Benz(a)anthracene	1	1	NA	NA	<0.310	<0.320	<0.310	<0.27	<0.28	0.37	<0.34	-	-	<0.320	-	-	-	-	<0.360	-	-
Benzo(a)pyrene	1	1	NA	NA	<0.310	<0.320	<0.310	<0.27	<0.28	0.41	<0.34	-	-	<0.320	-	-	-	-	<0.360	-	-
Benzo(b)fluoranthene	1	1	NA	NA	<0.310	<0.320	<0.310	<0.27	<0.28	0.38	<0.34	-	-	<0.320	-	-	-	-	<0.360	-	-
Benzo(ghi)perylene	8.4	1	NA	NA	<0.310	<0.320	<0.310	<0.27	<0.28	0.3	<0.34	-	-	<0.320	-	-	-	-	<0.360	-	-
Benzo(k)fluoranthene	8.4	1	NA	NA	<0.310	<0.320	<0.310	<0.27	<0.28	0.4	<0.34	-	-	<0.320	-	-	-	-	<0.360	-	-
Chrysene	84	1	NA	NA	<0.310	<0.320	<0.310	<0.27	<0.28	0.46	<0.34	-	-	<0.320	-	-	-	-	<0.360	-	-
Fluoranthene	1,000	5.6	NA	NA	<0.310	<0.320	<0.310	<0.27	<0.28	0.67	0.36	-	-	<0.320	-	-	-	-	<0.360	-	-
Indeno(1,2,3-cd)pyrene	1	1	NA	NA	<0.310	<0.320	<0.310	<0.27	<0.28	0.3	<0.34	-	-	<0.320	-	-	-	-	<0.360	-	-
Phenanthrene	1,000	4	NA	NA	<0.310	<0.320	<0.310	<0.27	<0.28	0.3	<0.34	-	-	<0.320	-	-	-	-	<0.360	-	-
Pyrene	1,000	4	NA	NA	<0.310	<0.320	<0.310	<0.27	<0.28	0.68	0.34	-	-	<0.320	-	-	-	-	<0.360	-	-
SPLP PAHs SW8270D (ug/l)	NA	NA	Varies	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CTDEEP RSRs- Connecticut Department of Energy and Environmental Protection Remediation Standard Regulations (February 16, 2021) *and CTDEEP Additional Polluting Substances (September 20, 2018)*
US EPA - United State Environmental Protection Agency
RES DEC-Residential Direct Exposure Criteria
GA PMC- Pollutant Mobility Criteria in a GA groundwater area
NE- Not established
NA- Not Applicable
CT ETPH- Connecticut Department of Public Health Extractable Total Petroleum Hydrocarbons
PAHs- Polycyclic Aromatic Hydrocarbons
PCBs- Polychlorinated Biphenyls
< xx indicates compound was not reported above reporting limits.
Boxed values indicate exceedance of RES DEC
Grey shade indicates exceedance of GA PMC
Blue shade indicates exceedance of GWPC
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.
SPLP results compared to GWPC
BRL - Below reporting limit

TABLE 2
Summary of Non-Investigation Analytical Data
Burr Elementary School Playground
Fairfield, Connecticut
Last Updated: 01/31/2022

Sample ID	CTDEEP RSR Criteria		US EPA	BES S100	BES S101	BES S102	BES S103	BES S104
Sample Depth				2.25-2.5 ft	2.25-2.5 ft	2.25-2.5 ft	1.5-2 ft	1.5-1.75 ft
Sample Date	RES	GA		9/4/19	9/4/19	9/4/19	9/4/19	9/4/19
Lab Sample ID	DEC	PMC		CD97460	CD97461	CD97462	CD97463	CD97464
Lab Report ID				GCD97460	GCD97460	GCD97460	GCD97460	GCD97460
Asbestos PLM 198.1[2]								
% Amosite	NA	NA	NA	0.0%	0.0%	0.0%	0.0%	0.0%
% Chrysotile	NA	NA	NA	0.0%	0.0%	0.0%	0.0%	0.0%
% Other	NA	NA	NA	0.0%	0.0%	0.0%	0.0%	0.0%
% Total Asbestos	NA	NA	1%	0.0%	0.0%	0.0%	0.0%	0.0%
Total Metals 6010D (mg/L)								
Arsenic	10	NA	NA	2.56	3.01	2.7	4.17	4.09
Lead	400	NA	NA	6.7	7.42	8.3	10.9	12.8
CTETPH 8015D (mg/Kg)	500	500	NA	<59	<58	<61	<61	<63
PCBs 8082A (mg/Kg)								
Total PCBs	1	NA	NA	<0.4	<0.38	<0.41	<0.41	<0.42
PAHs 8270D (mg/Kg)	Varies	Varies	NA	BRL	BRL	BRL	BRL	BRL
Pesticides 8081B (mg/Kg)	Varies	Varies	NA	BRL	BRL	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)
US EPA - United State Environmental Protection Agency
RES DEC-Residential Direct Exposure Criteria
GA PMC- Pollutant Mobility Criteria in a GA groundwater area
NE- Not established
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CT ETPH- Connecticut Department of Public Health Extractable Total Petroleum Hydrocarbons
PAHs- Polycyclic Aromatic Hydrocarbons
PCBs- Polychlorinated Biphenyls
<x indicates compound was not detected. Detection limit is provided.
Boxed values indicate exceedances of RES DEC
Grey values indicate exceedances of GA PMC
[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.
BRL - Below reporting limit

TABLE 3
Summary of Remediation Analytical Data
Burr Elementary School
Fairfield, Connecticut
Last Updated: 03/01/2022 (JLL)

Sample ID	CTDEEP RSR Criteria			BES-201	BES-201A	BES-201B	BES-201C	Excavated BES-201D	BES-301B	BES-302B	BES-303S	BES-304S	BES-305S	BES-306S
Sample Depth				0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 ft	DUP (CK06455)	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Sample Date	RES	GA	GWPC	12/8/21	12/8/21	12/8/21	12/8/21	12/8/21	12/28/2021	12/28/2021	12/28/2021	12/28/2021	12/28/2021	12/28/2021
Lab Sample ID	DEC	PMC		CJ93594	CJ93595	CJ93596	CJ93597	CJ93598	CK06455	CK06456	CK06457	CK06458	CK06459	CK06460
Lab Report ID				GCJ93594	GCJ93594	GCJ93594	GCJ93594	GCJ93594	GCK06455	GCK06455	GCK06455	GCK06455	GCK06455	GCK06455
Total Metals 6010D (mg/Kg)														
Arsenic	10	NA	NA	4.18	4.26	3.74	3.85	4.71	3.42	3.34	3.23	3.86	3.61	4.21
Lead	400	NA	NA	13.7	13.1	11.9	12.7	22.4	12.0	13.5	8.89	12.6	14.4	15.3
SPLP Metals 6010D (mg/L)														
Arsenic	NA	0.05	NA	-	-	-	-	-	-	-	-	<0.004	-	<0.004
Lead	NA	0.015	NA	-	-	-	-	-	-	-	-	-	<0.010	<0.010
CTETPH 8015D (mg/Kg)	500	500	NA	<59	<64	<59	<59	<300	<56	<58	<64	<60	<59	<63
PCBs SW8082A (mg/Kg)														
Total PCBs	1	NA	NA	<0.390	<0.430	<0.400	<0.400	<0.400	<0.190	<0.200	<0.220	<0.210	<0.200	<0.210
Pesticides 8081B (mg/Kg)														
DDD, 4,4-	NE	NE	NA	<0.0016	<0.0017	<0.0016	<0.0016	<0.0016	<0.0015	<0.0016	<0.0017	<0.0016	<0.0016	<0.0016
DDE, 4,4-	NE	NE	NA	<0.0016	<0.0017	<0.0016	<0.0016	0.0095	<0.0015	<0.0016	<0.0017	<0.0016	<0.0016	0.0060
DDT, 4,4-	NE	NE	NA	<0.0016	<0.0017	<0.0016	<0.0016	0.0100	<0.0015	<0.0016	<0.0017	<0.0016	<0.0016	0.0062
DDT (Total)	*1.8*	*0.003*	NA	ND	ND	ND	ND	0.0195	<0.0015	<0.0016	<0.0017	<0.0016	<0.0016	*0.0122*
Dieldrin	0.038	0.007	NA	<0.0039	<0.0043	<0.0040	<0.0040	<0.0040	<0.0038	<0.0039	<0.0043	<0.0041	<0.0040	<0.0041
SPLP Pesticides 8081B (ug/L)	NA	NA	Varies	-	-	-	-	BRL	BRL	BRL	BRL	BRL	BRL	BRL
PAHs SW8270D (mg/Kg)														
Benz(a)anthracene	1	1	NA	<0.280	<0.300	<0.280	<0.270	0.83	<0.270	<0.270	<0.300	<0.290	<0.280	<0.290
Benzo(a)pyrene	1	1	NA	<0.280	<0.300	<0.280	<0.270	1	<0.270	<0.270	<0.300	<0.290	<0.280	<0.290
Benzo(b)fluoranthene	1	1	NA	<0.280	<0.300	<0.280	<0.270	1.1	<0.270	<0.270	<0.300	<0.290	<0.280	<0.290
Benzo(ghi)perylene	8.4	1	NA	<0.280	<0.300	<0.280	<0.270	0.77	<0.270	<0.270	<0.300	<0.290	<0.280	<0.290
Benzo(k)fluoranthene	8.4	1	NA	<0.280	<0.300	<0.280	<0.270	0.88	<0.270	<0.270	<0.300	<0.290	<0.280	<0.290
Chrysene	84	1	NA	<0.280	<0.300	<0.280	<0.270	*1.1*	<0.270	<0.270	<0.300	<0.290	<0.280	<0.290
Fluoranthene	1,000	5.6	NA	<0.280	<0.300	<0.280	<0.270	1.6	<0.270	<0.270	<0.300	<0.290	<0.280	<0.290
Indeno(1,2,3-cd)pyrene	1	1	NA	<0.280	<0.300	<0.280	<0.270	0.82	<0.270	<0.270	<0.300	<0.290	<0.280	<0.290
Phenanthrene	1,000	4	NA	<0.280	<0.300	<0.280	<0.270	0.78	<0.270	<0.270	<0.300	<0.290	<0.280	<0.290
Pyrene	1,000	4	NA	<0.280	<0.300	<0.280	<0.270	1.5	<0.270	<0.270	<0.300	<0.290	<0.280	<0.290
SPLP PAHs SW8270D (ug/l)	NA	NA	Varies	-	-	-	-	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
GA PMC- Pollutant Mobility Criteria in a GA groundwater area
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< xx indicates compound was not reported above reporting limits.
SPLP results compared to GWPC
BRL - Below reporting limit

TABLE 4
Summary of Data Usability Evaluation
Burr Elementary School
Fairfield, Connecticut
Last Updated: 01/31/2022 (JLL)

Tighe&Bond

Laboratory Report ID	Sample Date	Batch Group	Lab	Lab Sample ID	Sample ID	Media	Compound	QA/QC Description	Result Bias	Target Range	Result %	Detected in Sample	DUE Consideration
GCD89521	8/21/19	493418	Phoenix	CD89521, CD89522, CD89523, CD89524	BES S1, BES S2, BES S3, BES S4	Soil	Naphthalene; Nitrobenzene-D5	High LCS/LCSD RPD	Variability	30	36, 31.1	No	Analytes were not reported in the samples. No significant variability is suspected.
							Pentacosane, n-	Low LCSD Recovery	Low	50-150	40	No	The recovery of the target analytes is acceptable. No significant bias is suspected.
								High LCS/LCSD RPD	Variability	30	35.1	No	
								Low Surrogate Recovery	Low	50-150	36, 40	No	
GCD97460	9/4/19					Soil							No Issues
GCJ12755	8/24/21					Soil							No Issues
GCJ93594	12/8/21	604823	Phoenix	CJ93598	BES-201D (0.5-1)	Soil	Endosulfan I, Endrin aldehyde	High LCS/LCSD RPD	Variability	20	21.5, 23.5	No	Analytes were not reported in the samples. No significant variability is suspected.
GCK06455	12/28/21	606227	Phoenix	CK06455, CK06456, CK06457, CK06458, CK06459, CK06460	BES-301B (0.5), BES-302B (0.5), BES-303S (0.0-0.5), BES-304S (0.0-0.5), BES-305S (0.0-0.5), BES-306S (0.0-0.5)	Soil	BHC, Delta- (δ-Lindane)	High LCS/LCSD RPD	Variability	30	34.9	No	This analyte was not reported in the samples. No significant variability is suspected.
		606257	Phoenix				Chemical oxygen demand	Low Surrogate Recovery	Low	50-150	34	No	Target QC data is acceptable. No significant bias is suspected.
		SPLP 606469	Phoenix	CK06460	BES-306S (0.0-0.5)		BHC, Beta- (β-Lindane); DDD, 4,4-; DDE, 4,4-; Endosulfan II; Methoxychlor	High LCS/LCSD Recovery	High	40-140	143, 162/171, 145, 143/145, 153	SPLP: No	Analytes were not reported in the samples. No significant variability is suspected.
							Decachlorobiphenyl	High LCS/LCSD RPD	Variability	20	30.1	No	The RPD for the target analytes is acceptable. No significant variability is suspected.

LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
SUR - Surrogate

Tighe&Bond

APPENDIX C

Description of Meeting

TO:	Jade Barber, CTDEEP Joe Schiavone, CTDEEP Ray Frigon	James Olsen, Tighe & Bond Harley Langford, Tighe & Bond Michael Miller, Wiggin and Dana LLP
FROM:	James Olsen	
DATE:	December 21, 2021	

On November 16, 2021, a Teams meeting was held between CTDEEP, Tighe & Bond, and Attorney Miller from 3 to 4 pm. The purpose of the meeting was to discuss soil assessment results and cleanup options for several Julian fill sites. The following are discussion items from this meeting.

Case Study Presentation - Soil assessment results were presented for the following sites. In general, the data for each site indicated that contaminant concentrations reported in the fill material were consistent with site background conditions with the exception of a few samples that were above applicable RSR Criteria.

- Riverfield Elementary School
- Dwight Elementary School
- Town Hall
- Burr Elementary school
- Thomlinson Middle School

Follow-Up Discussion Points – The following topics were discussed following the case study presentations.

- Mr. Frigon and Mr. Schiavone agreed that complete removal of all Julian Fill from the sites presented was not necessary given that the assessment data collected is sufficient to demonstrate that the majority of the Julian Fill material at these sites meets the definition of "Clean Fill" and does not contain large quantities of constituents typically found in solid waste like glass, masonry debris, plastics, and general refuse.

- CTDEEP asked if it was possible to visually identify a clean break between the Julian Fill material and pre-existing soils. Tighe & Bond advised that it is possible at some sites but, in many cases, it is difficult because the sites were filled in with similar material many times prior to the placement of Julian Fill. In these cases, the following lines of evidence have been used to determine the limits of the Julian Fill.

    - Town records indicating the volume of material used at each site.
    - Interviews and site walks with Town personnel familiar with the work in question.
    - Analytical data collected from known Julian Fill material and background samples.
    - Visual inspection of the soil types, compaction of the soils, standard limits of construction work (where applicable).

- The concept of limiting soil removal to the identified "target removal" and / or use of a 95% UCL calculation to demonstrate compliance with the Consent Order was discussed.

    - Mr. Frigon and Mr. Schiavone concurred that "targeted removal" is a satisfactory approach for demonstrating compliance with the Consent Order.

    - CTDEEP indicated that post "targeted removal" sidewall sampling must be used to demonstrate compliance with the RSRs.

    - CTDEEP suggested that the use of a 95% UCL calculation would be possible in certain situations where exposure to contaminated fill / soils was limited in nature, such as beneath pavement or another hardscape. Use of this compliance method must be evaluated on a case by case basis.

    - If the 95% UCL is used, the Town must document where soils are known to exceed RSR criteria. The specific mechanism for recording such information may require further discussion.

- The Julian Fill used in many applications is similar to what is commonly used for road base or structural fill beneath walkways or other hardscapes and structures. These materials commonly contain concentrations of PAHs, metals, and/or ETPH due to asphalt fragments and urban soil/fill materials used in the aggregate and background conditions. For this reason, removal of Julian Fill used in a construction fill application was not deemed necessary so long as it does not contain reportable asbestos concentrations, PCB concentrations >0.5 ppm, or metals above the Residential Direct Exposure Criteria or Background concentrations. In a follow up email exchange between DEEP and Tighe & Bond on November 23rd, (see attached), it was agreed that notification on the land records will not be necessary if the fill is consistent with typical backfill.

Attachment – email exchange between DEEP and Tighe & Bond

From: Barber, Jade <Jade.Barber@ct.gov>
Sent: Monday, November 22, 2021 8:43 AM
To: James T. Olsen
Subject: RE: Fairfield Fill Projects

Importance: Low

[Caution - External Sender]

Morning Jim,

I agree on the meeting!

- Notification on the land records will not be necessary assuming the fill is consistent with typical backfill.
- No comments or questions on the Lake Mohegan RAR
    - I think my review is up to date on submittals, but if you want to send me a reminder *list* I will double check.

Thank you,
Jade

From: James T. Olsen <JTOlsen@tighebond.com>
Sent: Friday, November 19, 2021 6:04 PM
To: Barber, Jade <Jade.Barber@ct.gov>
Subject: RE: Fairfield Fill Projects

EXTERNAL EMAIL: This email originated from outside of the organization. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

Hi Jade,

Thanks again for the meeting. It was very helpful.

Couple of questions/clarifications.

- If we leave Julian Fill under roadways and sidewalks that is consistent with typical asphalt type backfill, will the Town need to file any kind of notification on the land records? I didn't think so but just wanted to check.
- Also, did you finish your review of the Lake Mohegan Park RAR and if so do you have any questions or comments?

Jim

From: James T. Olsen
Sent: Tuesday, November 9, 2021 5:22 PM
To: Barber, Jade <Jade.Barber@ct.gov>
Subject: RE: Fairfield Fill Projects

Hi Jade,

Thank you for the follow up and information. This is very helpful.

For the question regarding the Julian Fill under sidewalks and roads, the following is proposed:

- asbestos – none detected
- PCBs - < 0.5 mg/Kg
- metals – arsenic and lead complaint with the RES DEC or within background range

Would the DEEP team be available this Thu during the timeframes from 8:30 to 10:30 or 2:00 to 3:30? I think an hour of meeting time should be enough.

Jim

From: Barber, Jade <Jade.Barber@ct.gov>
Sent: Tuesday, November 9, 2021 12:28 PM
To: James T. Olsen <JTOlsen@tighebond.com>
Subject: RE: Fairfield Fill Projects
Importance: Low

[Caution - External Sender]

Jim,

The Department concurs with a hot spot removal approach, and application of the 95% UCL to demonstrate that areas of soil fill meet the applicable RSRs. For areas where laboratory data indicates that removal of fill is not warranted, please ensure that such decisions are based on a sufficient and reasonable body of data.

Please clarify what constitutes "elevated" levels of PCB, metals, or asbestos.

- "The Town can leave Julian Fill under sidewalks and roadways if it's similar in COC composition (i.e. ETPH and PAHs) to other road base in the area and does not contain elevated levels of PCB, metals, or asbestos."

A technical meeting to present a few case studies for discussion would be helpful. The DEEP team may be able to squeeze something in this week or next, so please let me know some times that you are available, and how much time you think you will need.

Thank you,
Jade

From: James T. Olsen <JTOlsen@tighebond.com>
Sent: Monday, November 1, 2021 5:12 PM
To: Barber, Jade <Jade.Barber@ct.gov>
Subject: Fairfield Fill Projects

EXTERNAL EMAIL: This email originated from outside of the organization. Do not click any links or open any attachments unless you trust the sender and know the content is safe.

Hi Jade,

Thank you for your time to discuss the Fairfield Fill projects last Thu. I'm just following up on our discussions to confirm some points including:

- The Town can leave Julian Fill under sidewalks and roadways if it's similar in COC composition (i.e. ETPH and PAHs) to other road base in the area and does not contain elevated levels of PCB, metals, or asbestos.
- The Town can remove "hot spots" of Julian Fill at a site if it can be demonstrated that the remaining Julian Fill that is left in place meets the definition of clean fill under the Solid Waste Regulations.
- The Town can use statistics by way of the 95% UCL of the RSRs to demonstrate that the Julian Fill meets the definition of clean fill under the Solid Waste Regulations and can be left in place.

Please let me know if I stated these points correctly.

Also, I think it would be good to have a technical, virtual meeting between DEEP and Tighe & Bond to present a few case studies where we would apply the above approaches for discussion and concurrence with DEEP. I'm thinking it would be you, Joe Schiavone, myself and another Tighe & Bond technical staff person.

Can we schedule something for next week or the 3rd week of November? We can also discuss the schedule and priority for remediating the remaining sites per your other email inquiry.

Jim

James Olsen, PG, LEP
Vice President
Tighe&Bond
o. 860.704.4761 | m. 860.805.8776
213 Court Street, Suite 1100, Middletown, CT 06457
w: tighebond.com | halvorsondesign.com

APPENDIX D

Appendix D - Photographic Log

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

Site: Burr Elementary School
1960 Burr Street, Fairfield, CT

Photograph No.: 1	**Date:** 8/24/2021	**Direction Taken:** Facing Northwest
Description: Reported Julian Fill Use Location (goalie areas and centerline of field)		

Photograph No.: 2	**Date:** 12/8/2021	**Direction Taken:** Not Applicable
Description: BES 201 Sampling Location		

Appendix D - Photographic Log

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

Site: Burr Elementary School
1960 Burr Street, Fairfield, CT

Photograph No.: 3	**Date:** 12/28/2021	**Direction Taken:** Facing Southwest
Description: Remediation		

Photograph No.: 4	**Date:** 12/28/2021	**Direction Taken:** Facing Northwest
Description: Remediation		

Tighe&Bond

APPENDIX E

EAS®

Eastern Analytical Services, Inc.

Phone (914) 592-8380

4 Westchester Plaza
Elmsford, New York 10523-1610
http://www.EASInc.com

Fax (914) 592-8956

August 22, 2019

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

RE: CPN 150439020 - Burr School
EAS Batch No. 1906849

Dear Mr. Olsen:

Enclosed please find the laboratory results for the 4 bulk sample(s) received by Eastern Analytical Services, Inc. August 21, 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
August 22, 2019

EAS Batch No. 1906849

Eastern Analytical Services, Inc.

Bulk Sample Results

RE: CPN 150439020 - Burr School

Client: Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Date Collected : 08/21/2019
Collected By : Brian Sirowich
Date Received : 08/21/2019
Date Analyzed : 08/21/2019
Analyzed By : Ghayath Elias
Signature :
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		BES S1	BES S2	BES S3	BES S4
Layer Number					
Lab ID Number		2639076	2639077	2639078	2639079
Sample Location		Not Given	Not Given	Not Given	Not Given
Sample Description		Not Given	Not Given	Not Given	Not Given
Method of Quantification		Visual Estimation	Visual Estimation	Visual Estimation	Visual Estimation
Appearance	Layered	No	No	No	No
	Homogenous	No	No	No	No
	Fibrous	Yes	Yes	Yes	Yes
	Color	Brown	Brown	Brown	Brown
Sample Treatment		Homogenized	Homogenized	Homogenized	Homogenized
Asbestos Content	% Amosite	0.0	0.0	0.0	0.0
	% 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 Materials Present	% Fibrous Glass	0.0	0.0	0.0	0.0
	% Cellulose	5.0	5.0	5.0	5.0
	% Other	0.0	0.0	0.0	0.0
	% Unidentified	0.0	0.0	0.0	0.0
Non-Fibrous Materials Present	% Silicates	15.0	15.0	15.0	15.0
	% Carbonates	20.0	20.0	10.0	20.0
	% Other	0.0	0.0	0.0	0.0
	% Unidentified	60.0	60.0	70.0	60.0

Eastern Analytical Services, Inc.
Chain of Custody Form

EAS Client:	Tighe & Bond 53 Southampton Road Westfield, MA 01085	EAS Batch No.	1906849
		Turn-Around:	12 Hr
		Shipped Via:	Walk In
Analyte:	% Asb	State of Origin:	CT
No. of Samples Received:	4	Sample Disposition:	Standard x Return
No. of Samples Analyzed:	4		
Client Project Number/Name:	RE: CPN 150439020 - Burr School		

Lab ID Numbers: 2639076-2639079

Collected By:	Brian Sirowich	Signature	Date: 08/21/2019	
Received By:	Damien Warner		Date: 08/21/2019	Time: 1718
Logged In By:	Ghayath Elias		Date: 08/21/2019	
Prepped By:	Joseph B. LaPuebla		Date: 08/21/2019	
Analyzed By :	Ghayath Elias		Date: 08/21/2019	Time: 1905
Re-Analyzed By:			Date:	
Checked By:	Damien Warner		Date: 08/22/2019	
E-Transmitted By:	Damien Warner		Date: 08/22/2019	Time: 1012
Logged Out By:			Date:	

Phone 914-592-8380 e-mail Lab@EASInc.com Fax 914-592-8956

Eastern Analytical Services, Inc.

4 Westchester Plaza - Elmsford, NY 10523
www.EASInc.com
914-592-8380

BES S1 BES S4
BES S2
BES S3

CHAIN OF CUSTODY

4

EAS Client: Tighe & Bond
53 Southampton Rd
Westfield MA 01085

No. of Samples: ____

Turn-Around: ☐03Hr ☐06Hr ☑12Hr ☐24Hr ☐30Hr ☐48Hr ☐72Hr ☐96Hr ☐5Day ☐Other____

Analyte:

Asbestos
- ☐ PLM
- ☐ NOB PLM Only
- ☐ NOB TEM Only
- ☐ NOB PLM/TEM
- ☐ NOB TEM/PLM
- ☐ Air 7400 (PCM)
- ☐ Air AHERA (TEM)
- ☐ Air 7402 (TEM)
- ☐ Water (TEM)
- ☑ Other NYSDOH 198.1 PLM

Lead
- ☐ Solid
- ☐ Dust
- ☐ Air
- ☐ Water
- ☐ Other

Fungi
- ☐ Spore Trap
- ☐ Tape Lift

Other Analyte
____ ____

TCLP
- ☐ Pb Only
- ☐ 8 RCRA

Shipped Via: ☐ US Mail ☐ FedEx ☐ UPS ☐ Drop Box ☑ Walk In ☐ US Exp ☐ Courier ☐ Other ____

State of Origin: ☐ NY ☑ CT ☐ NJ ☐ PA ☐ MA ☐ RI ☐ ME ☐ VT ☐ Other ____

Sample Disposition: ☑ (Std.) ☐ (Return)

Client Project Name/Number: 150439020 - Burr School

Sampled By: Brian Sirowich (Name (Print or Type)) [signature] (Signature) 8/21/19 (Date)

Submitted By: ____ (Name (Print or Type)) ____ (Signature) ____ (Date)

Comments: Email results to jtolsen@tighebond.com, (JLL) bsirowich@tighebond.com, jlibby@tighebond.com

FOR LABORATORY USE ONLY

	Name (Print)	Signature	Date	Time
Account Number:				
Received By:	[illegible]	[signature]	AUG 21 '19	17:18
Logged-In By:				
Prepped By:				
Analyzed By:				
Re-Analyzed By:				
Checked By:				
Logged-Out By:				

EASTERN ANALYTICAL SERVICES, INC.

BULK SAMPLE DATA SHEET

Date Collected: NG
Collected By: NG
Date Received:
Date Analyzed:
Analyzed By:
Time:
Signature:

EAS Client: Taylor & Rowe
Address:

Client Project Number/Name
RE: Bus school

Turn-Around: ☐03 Hr ☐06 Hr ☒12 Hr ☐24 Hr ☐30 Hr ☐48 Hr ☐72 Hr ☐96 Hr ☐5 Day ☐Other_____

Sample Number	Sample Location	Sample Description	Result
BES 51	NG	NG	2639076
52			2639077
53			2639078
54			2639079

Comments: 2 Asbestos containers
GC 8/2/2013

PLM Analysis Memo

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 **Ceiling 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 http://lwd.dol.state.nj.us/labor/lsse/laws/Asbestos_law.html#5a39.

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

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
53 Southampton Road
Westfield, MA 01085

INVOICE № 1023949

DATE 08/22/2019

P.O. NUMBER

TERMS 1%/10, Net 30,
1.5% Int 30+

Account No. 040136

EAS Batch No. 1906849

DATE	DESCRIPTION	PRICE
08/21/2019	Analytical Services (12 Hr Turn-Around)	
	RE: CPN 150439020 - Burr School	
	Fiber Identification Polarized Light Microscopy	
	4 Samples @ $13.00 /Sample	$52.00
	Total	$52.00

Please Reference Invoice Number with Payment

Monday, August 26, 2019

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

Project ID: **150439020- BURR SCHOOL**
SDG ID: **GCD89521**
Sample ID#s: CD89521 - CD89524

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

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 26, 2019

SDG I.D.: GCD89521

Project ID: 150439020- BURR SCHOOL

Client Id	Lab Id	Matrix
BES S1	CD89521	SOIL
BES S2	CD89522	SOIL
BES S3	CD89523	SOIL
BES S4	CD89524	SOIL

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

Analysis Report

August 26, 2019

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/21/19	7:50
Location Code:	TIGHE-DAS	Received by:	CP	08/21/19	16:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCD89521
Phoenix ID: CD89521

Project ID: 150439020- BURR SCHOOL
Client ID: BES S1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.16	0.84	mg/Kg	1	08/22/19	CPP	SW6010D
Lead	12.3	0.42	mg/Kg	1	08/22/19	CPP	SW6010D
Percent Solid	84		%		08/21/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				08/21/19	NT/NM/LV	SW3545A
Extraction of CT ETPH	Completed				08/21/19	NT/G/VL	SW3545A
Extraction for PCB	Completed				08/21/19	BX/VT/KL	SW3540C
Total Metals Digest	Completed				08/21/19	M/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	08/22/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	08/22/19	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	63		%	1	08/22/19	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	55		%	10	08/22/19	SC	30 - 150 %
% DCBP (Confirmation)	54		%	10	08/22/19	SC	30 - 150 %
% TCMX	49		%	10	08/22/19	SC	30 - 150 %

Project ID: 150439020- BURR SCHOOL
Client ID: BES S1

Phoenix I.D.: CD89521

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX (Confirmation)	50		%	10	08/22/19	SC	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Acenaphthene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Anthracene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Chrysene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Fluoranthene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Fluorene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Naphthalene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Phenanthrene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Pyrene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	69		%	1	08/22/19	AW	30 - 130 %
% Nitrobenzene-d5	76		%	1	08/22/19	AW	30 - 130 %
% Terphenyl-d14	57		%	1	08/22/19	AW	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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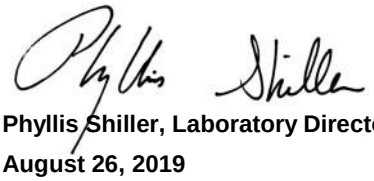

Phyllis Shiller, Laboratory Director

August 26, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

August 26, 2019

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/21/19	7:55
Location Code:	TIGHE-DAS	Received by:	CP	08/21/19	16:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCD89521
Phoenix ID: CD89522

Project ID: 150439020- BURR SCHOOL
Client ID: BES S2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.60	0.75	mg/Kg	1	08/22/19	CPP	SW6010D
Lead	10.9	0.38	mg/Kg	1	08/22/19	CPP	SW6010D
Percent Solid	83		%		08/21/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				08/21/19	NT/NM/LV	SW3545A
Extraction of CT ETPH	Completed				08/21/19	NT/G/VL	SW3545A
Extraction for PCB	Completed				08/21/19	BX/VT/KL	SW3540C
Total Metals Digest	Completed				08/21/19	M/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	08/22/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	08/22/19	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	1	08/22/19	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	79		%	10	08/22/19	SC	30 - 150 %
% DCBP (Confirmation)	72		%	10	08/22/19	SC	30 - 150 %
% TCMX	80		%	10	08/22/19	SC	30 - 150 %

Ver 1

Project ID: 150439020- BURR SCHOOL
Client ID: BES S2

Phoenix I.D.: CD89522

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX (Confirmation)	80		%	10	08/22/19	SC	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	280	ug/Kg	1	08/22/19	AW	SW8270D
Acenaphthene	ND	280	ug/Kg	1	08/22/19	AW	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	08/22/19	AW	SW8270D
Anthracene	ND	280	ug/Kg	1	08/22/19	AW	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	08/22/19	AW	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	08/22/19	AW	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	08/22/19	AW	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	08/22/19	AW	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	08/22/19	AW	SW8270D
Chrysene	ND	280	ug/Kg	1	08/22/19	AW	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	08/22/19	AW	SW8270D
Fluoranthene	ND	280	ug/Kg	1	08/22/19	AW	SW8270D
Fluorene	ND	280	ug/Kg	1	08/22/19	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	08/22/19	AW	SW8270D
Naphthalene	ND	280	ug/Kg	1	08/22/19	AW	SW8270D
Phenanthrene	ND	280	ug/Kg	1	08/22/19	AW	SW8270D
Pyrene	ND	280	ug/Kg	1	08/22/19	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	58		%	1	08/22/19	AW	30 - 130 %
% Nitrobenzene-d5	63		%	1	08/22/19	AW	30 - 130 %
% Terphenyl-d14	50		%	1	08/22/19	AW	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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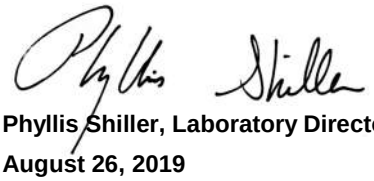

Phyllis Shiller, Laboratory Director

August 26, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

August 26, 2019

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/21/19	8:00
Location Code:	TIGHE-DAS	Received by:	CP	08/21/19	16:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCD89521
Phoenix ID: CD89523

Project ID: 150439020- BURR SCHOOL
Client ID: BES S3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	5.85	0.85	mg/Kg	1	08/22/19	CPP	SW6010D
Lead	26.3	0.43	mg/Kg	1	08/22/19	CPP	SW6010D
Percent Solid	84		%		08/21/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				08/21/19	NT/NM/LV	SW3545A
Extraction of CT ETPH	Completed				08/21/19	NT/G/VL	SW3545A
Extraction for PCB	Completed				08/21/19	BX/VT/KL	SW3540C
Total Metals Digest	Completed				08/21/19	M/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	08/22/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	08/22/19	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	74		%	1	08/22/19	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	08/22/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	72		%	10	08/22/19	SC	30 - 150 %
% DCBP (Confirmation)	53		%	10	08/22/19	SC	30 - 150 %
% TCMX	69		%	10	08/22/19	SC	30 - 150 %

Project ID: 150439020- BURR SCHOOL
Client ID: BES S3

Phoenix I.D.: CD89523

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX (Confirmation)	62		%	10	08/22/19	SC	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Acenaphthene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Anthracene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Benz(a)anthracene	370	270	ug/Kg	1	08/22/19	AW	SW8270D
Benzo(a)pyrene	410	270	ug/Kg	1	08/22/19	AW	SW8270D
Benzo(b)fluoranthene	380	270	ug/Kg	1	08/22/19	AW	SW8270D
Benzo(ghi)perylene	300	270	ug/Kg	1	08/22/19	AW	SW8270D
Benzo(k)fluoranthene	400	270	ug/Kg	1	08/22/19	AW	SW8270D
Chrysene	460	270	ug/Kg	1	08/22/19	AW	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Fluoranthene	670	270	ug/Kg	1	08/22/19	AW	SW8270D
Fluorene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Indeno(1,2,3-cd)pyrene	300	270	ug/Kg	1	08/22/19	AW	SW8270D
Naphthalene	ND	270	ug/Kg	1	08/22/19	AW	SW8270D
Phenanthrene	300	270	ug/Kg	1	08/22/19	AW	SW8270D
Pyrene	680	270	ug/Kg	1	08/22/19	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	59		%	1	08/22/19	AW	30 - 130 %
% Nitrobenzene-d5	68		%	1	08/22/19	AW	30 - 130 %
% Terphenyl-d14	52		%	1	08/22/19	AW	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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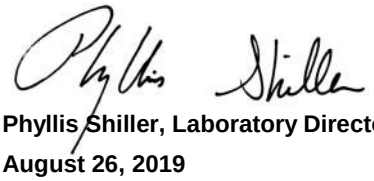

Phyllis Shiller, Laboratory Director

August 26, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

August 26, 2019

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/21/19	8:15
Location Code:	TIGHE-DAS	Received by:	CP	08/21/19	16:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCD89521
Phoenix ID: CD89524

Project ID: 150439020- BURR SCHOOL
Client ID: BES S4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.91	0.98	mg/Kg	1	08/22/19	CPP	SW6010D
Lead	22.1	0.49	mg/Kg	1	08/22/19	CPP	SW6010D
Percent Solid	69		%		08/21/19	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				08/21/19	NT/NM/LV	SW3545A
Extraction of CT ETPH	Completed				08/21/19	NT/G/VL	SW3545A
Extraction for PCB	Completed				08/21/19	BX/VT/KL	SW3540C
Total Metals Digest	Completed				08/21/19	M/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	71	mg/Kg	1	08/22/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	08/22/19	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	57		%	1	08/22/19	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	470	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1221	ND	470	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1232	ND	470	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1242	ND	470	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1248	ND	470	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1254	ND	470	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1260	ND	470	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1262	ND	470	ug/Kg	10	08/22/19	SC	SW8082A
PCB-1268	ND	470	ug/Kg	10	08/22/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	65		%	10	08/22/19	SC	30 - 150 %
% DCBP (Confirmation)	42		%	10	08/22/19	SC	30 - 150 %
% TCMX	63		%	10	08/22/19	SC	30 - 150 %

Ver 1

Project ID: 150439020- BURR SCHOOL
Client ID: BES S4

Phoenix I.D.: CD89524

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX (Confirmation)	39		%	10	08/22/19	SC	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	340	ug/Kg	1	08/22/19	WB	SW8270D
Acenaphthene	ND	340	ug/Kg	1	08/22/19	WB	SW8270D
Acenaphthylene	ND	340	ug/Kg	1	08/22/19	WB	SW8270D
Anthracene	ND	340	ug/Kg	1	08/22/19	WB	SW8270D
Benz(a)anthracene	ND	340	ug/Kg	1	08/22/19	WB	SW8270D
Benzo(a)pyrene	ND	340	ug/Kg	1	08/22/19	WB	SW8270D
Benzo(b)fluoranthene	ND	340	ug/Kg	1	08/22/19	WB	SW8270D
Benzo(ghi)perylene	ND	340	ug/Kg	1	08/22/19	WB	SW8270D
Benzo(k)fluoranthene	ND	340	ug/Kg	1	08/22/19	WB	SW8270D
Chrysene	ND	340	ug/Kg	1	08/22/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	340	ug/Kg	1	08/22/19	WB	SW8270D
Fluoranthene	360	340	ug/Kg	1	08/22/19	WB	SW8270D
Fluorene	ND	340	ug/Kg	1	08/22/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	340	ug/Kg	1	08/22/19	WB	SW8270D
Naphthalene	ND	340	ug/Kg	1	08/22/19	WB	SW8270D
Phenanthrene	ND	340	ug/Kg	1	08/22/19	WB	SW8270D
Pyrene	340	340	ug/Kg	1	08/22/19	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	61		%	1	08/22/19	WB	30 - 130 %
% Nitrobenzene-d5	67		%	1	08/22/19	WB	30 - 130 %
% Terphenyl-d14	56		%	1	08/22/19	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:

PCB Comment:
Sample was evaluated against an external standard.

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Phyllis Shiller, Laboratory Director
August 26, 2019
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

QA/QC Report

August 26, 2019

QA/QC Data

SDG I.D.: GCD89521

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 493448 (mg/kg), QC Sample No: CD89583 (CD89521, CD89522, CD89523, CD89524)													
ICP Metals - Soil													
Arsenic	BRL	0.67	5.32	5.35	0.60	109	107	1.9	93.6			75 - 125	30
Lead	BRL	0.33	26.4	22.5	16.0	107	103	3.8	95.0			75 - 125	30

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

QA/QC Report

August 26, 2019

QA/QC Data

SDG I.D.: GCD89521

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 493416 (mg/Kg), QC Sample No: CD89505 (CD89521, CD89522, CD89523, CD89524)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	82	75	8.9	119			60 - 120	30	
% n-Pentacosane	36	%	57	40	35.1	107			50 - 150	30	l,r,s
Comment:											
This batch consists of a Blank, LCS, LCSD and MS.											
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.											
QA/QC Batch 493423 (ug/Kg), QC Sample No: CD89511 10X (CD89521, CD89522, CD89523, CD89524)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	170	97	90	7.5	88	95	7.7	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	114	95	18.2	94	100	6.2	40 - 140	30	
PCB-1262	ND	170							40 - 140	30	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	97	%	114	101	12.1	97	103	6.0	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	83	%	105	88	17.6	85	92	7.9	30 - 150	30	
% TCMX (Surrogate Rec)	95	%	115	96	18.0	92	101	9.3	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	96	%	118	93	23.7	89	97	8.6	30 - 150	30	
QA/QC Batch 493418 (ug/kg), QC Sample No: CD89652 (CD89521, CD89522, CD89523, CD89524)											
Polynuclear Aromatic HC - Soil											
2-Methylnaphthalene	ND	230	59	46	24.8	31	54	54.1	30 - 130	30	r
Acenaphthene	ND	230	68	59	14.2	65	71	8.8	30 - 130	30	
Acenaphthylene	ND	230	66	57	14.6	60	68	12.5	30 - 130	30	
Anthracene	ND	230	66	58	12.9	66	72	8.7	30 - 130	30	
Benz(a)anthracene	ND	230	68	60	12.5	70	77	9.5	30 - 130	30	
Benzo(a)pyrene	ND	230	67	61	9.4	66	74	11.4	30 - 130	30	
Benzo(b)fluoranthene	ND	230	70	63	10.5	71	78	9.4	30 - 130	30	
Benzo(ghi)perylene	ND	230	66	59	11.2	66	73	10.1	30 - 130	30	
Benzo(k)fluoranthene	ND	230	69	61	12.3	68	74	8.5	30 - 130	30	
Chrysene	ND	230	66	59	11.2	67	75	11.3	30 - 130	30	
Dibenz(a,h)anthracene	ND	230	73	68	7.1	72	82	13.0	30 - 130	30	
Fluoranthene	ND	230	63	57	10.0	64	74	14.5	30 - 130	30	
Fluorene	ND	230	66	58	12.9	64	72	11.8	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	73	65	11.6	73	81	10.4	30 - 130	30	
Naphthalene	ND	230	59	41	36.0	54	59	8.8	30 - 130	30	r
Phenanthrene	ND	230	65	57	13.1	66	72	8.7	30 - 130	30	
Pyrene	ND	230	64	59	8.1	65	74	12.9	30 - 130	30	

QA/QC Data

SDG I.D.: GCD89521

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% 2-Fluorobiphenyl	46	%		62	54	13.8	60	65	8.0	30 - 130	30	
% Nitrobenzene-d5	34	%		52	38	31.1	52	65	22.2	30 - 130	30	r
% Terphenyl-d14	50	%		56	53	5.5	57	63	10.0	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%)

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.
s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

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
August 26, 2019

Monday, August 26, 2019

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCD89521 - TIGHE-DAS

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

*** No Data to Display ***

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- BURR SCHOOL ***Project Number:***

Laboratory Sample ID(s): CD89521-CD89524 ***Sampling Date(s):*** 8/21/2019

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	***VPH and EPH methods only:*** **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 ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ 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: Rashmi Makol **Position:** Project Manager

Printed Name: Rashmi Makol **Date:** Monday, August 26, 2019

Name of Laboratory Phoenix Environmental Labs, Inc.

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

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

August 26, 2019

SDG I.D.: GCD89521

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 493416 (Samples: CD89521, CD89522, CD89523, CD89524): -----

The surrogate recovery in the blank is below the criteria. A low bias is possible. (% n-Pentacosane)

The surrogate recovery in the LCSD is below the criteria. The recovery of the target analytes is acceptable. No significant bias is suspected. (% n-Pentacosane)

The LCS/LCSD RPD exceeds the method criteria for the surrogate. The LCS/LCSD RPD for the target analyte is acceptable. No significant variability is suspected. (% n-Pentacosane)

Instrument:

AU-FID84 08/21/19-1 Jeff Bucko, Chemist 08/21/19

CD89523, CD89524

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 (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:
Samples: CD89523, CD89524
Preceding CC 821A029 - Pentacosane 40%H (30%)
Succeeding CC 821A039 - None.

AU-XL2 08/20/19-1 Jeff Bucko, Chemist 08/20/19

CD89521, CD89522

The initial calibration (ETPH715I) 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.

QC (Batch Specific):

Batch 493416 (CD89505)

CD89521, CD89522, CD89523, CD89524

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: % n-Pentacosane(40%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: % n-Pentacosane(35.1%)
This batch consists of a Blank, LCS, LCSD and MS.
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.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Certification Report

August 26, 2019

SDG I.D.: GCD89521

ICP Metals Narration

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

Instrument:

ARCOS 08/21/19 08:12 Cindy Pearce, Chemist 08/21/19

CD89521, CD89522, CD89523, CD89524

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 493448 (CD89583)

CD89521, CD89522, CD89523, CD89524

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.

PCB Narration

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

Instrument:

AU-ECD24 08/21/19-1 Saadia Chudary, Chemist 08/21/19

CD89524

The initial calibration (PC719AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC719BI) 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 08/21/19-1 Saadia Chudary, Chemist 08/21/19

CD89522

The initial calibration (PC703AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC703BI) 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 08/22/19-1 Saadia Chudary, Chemist 08/22/19

CD89521

The initial calibration (PC822AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC822BI) 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

CD89523

The initial calibration (PC813AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC813BI) 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:

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

August 26, 2019

SDG I.D.: GCD89521

PCB Narration

Samples: CD89523
Preceding CC 821B056 - PCB 1260 21%H (%)
Succeeding CC 821B075 - None.

QC (Batch Specific):

Batch 493423 (CD89511)

CD89521, CD89522, CD89523, CD89524

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.

SVOA Narration

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

QC Batch 493418 (Samples: CD89521, CD89522, CD89523, CD89524): -----

The LCS/LCSD RPD exceeds the method criteria for one analyte and one surrogate. This analyte was not reported in the sample(s). No significant variability is suspected. (Naphthalene, % Nitrobenzene-d5)

Instrument:

CHEM28 08/22/19-1 Matt Richard, Chemist 08/22/19

CD89521, CD89522, CD89523, CD89524

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_0807):
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 (CHEM28/0822_04-28_BN_0807):
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 493418 (CD89652)

CD89521, CD89522, CD89523, CD89524

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: % Nitrobenzene-d5(31.1%), Naphthalene(36.0%)

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RCP Certification Report

August 26, 2019

SDG I.D.: GCD89521

SVOA Narration

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 3.2C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☐ No ☐

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 2.2°C Pg 1 of 1

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☑ Email: On file

Customer: Tighe & Bond
Address: 213 Court St Suite 1100
Middletown CT 06457

Project: 150439020 - Burr School
Report to: Brian Sirowich, Jill Libby, Jim Olsen
Invoice to: Tighe & Bond
QUOTE #

Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature: _____ Date: 8/2/19

Client Sample - Information - identification

Analysis Request

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs SOX	Lead	Arsenic	ETPH	PAHs 8270 SIM	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
89521	BES S1	S	8/2/1	7:50	X	X	X	X	X				1								
89522	BES S2	S	↓	7:55	↓	↓	↓	↓	↓				1								
89523	BES S3	S		8:00									1								
89524	BES S4	S	↓	8:15	↓	↓	↓	↓	↓				1								

Relinquished by:	Accepted by:	Date:	Time:
Zac Adomeit	[signature]	8/2/19	2:45
[signature]	[signature]	8/2/19	16:16

Comments, Special Requirements or Regulations:
DAS Pricing

Turnaround Time:
☑ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☑ RCP Cert
☐ GW Protection
☐ SW Protection
☑ GA Mobility
☐ GB Mobility
☑ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1
☐ 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
☐ MWRA eSMART ☐ Other

State where samples were collected: CT

Data Format
☑ Excel
☑ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☐ Phoenix Std Report
☑ Other Enviro Data
* SURCHARGE APPLIES

PHOENIX
Environmental Laboratories, Inc.

Friday, September 06, 2019

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

Project ID: 150439023 BURR ELEM SCHOOL
SDG ID: GCD97460
Sample ID#s: CD97460 - CD97464

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

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

September 06, 2019

SDG I.D.: GCD97460

Project ID: 150439023 BURR ELEM SCHOOL

Client Id	Lab Id	Matrix
BES S100 (2.25-2.5`)	CD97460	SOIL
BES S101 (2.5-2.75`)	CD97461	SOIL
BES S102 (2.5-2.75`)	CD97462	SOIL
BES S103 (1.5-2`)	CD97463	SOIL
BES S104 (1.5-1.75`)	CD97464	SOIL

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

Analysis Report

September 06, 2019

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/04/19	12:25
Location Code:	TIGHE-DAS	Received by:	B	09/04/19	15:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCD97460
Phoenix ID: CD97460

Project ID: 150439023 BURR ELEM SCHOOL
Client ID: BES S100 (2.25-2.5`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.56	0.73	mg/Kg	1	09/05/19	EK	SW6010D
Lead	6.70	0.37	mg/Kg	1	09/05/19	EK	SW6010D
Percent Solid	82		%		09/04/19	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				09/04/19	MM/UV	SW3545A
Soil Extraction SVOA PAH	Completed				09/04/19	NT/LV	SW3545A
Extraction of CT ETPH	Completed				09/04/19	GG/LL	SW3545A
Extraction for PCB	Completed				09/04/19	QQ/VT/SB	SW3540C
Total Metals Digest	Completed				09/04/19	JJ/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	09/05/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	09/05/19	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	50		%	1	09/05/19	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	400	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	09/05/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	65		%	10	09/05/19	SC	30 - 150 %
% DCBP (Confirmation)	79		%	10	09/05/19	SC	30 - 150 %

Ver 1

Project ID: 150439023 BURR ELEM SCHOOL
Client ID: BES S100 (2.25-2.5`)

Phoenix I.D.: CD97460

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX	74		%	10	09/05/19	SC	30 - 150 %
% TCMX (Confirmation)	80		%	10	09/05/19	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.6	ug/Kg	2	09/05/19	AW	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	09/05/19	AW	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	09/05/19	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	09/05/19	AW	SW8081B
Alachlor	ND	8.1	ug/Kg	2	09/05/19	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	09/05/19	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	09/05/19	AW	SW8081B
Chlordane	ND	41	ug/Kg	2	09/05/19	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	09/05/19	AW	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	09/05/19	AW	SW8081B
Endosulfan I	ND	8.1	ug/Kg	2	09/05/19	AW	SW8081B
Endosulfan II	ND	8.1	ug/Kg	2	09/05/19	AW	SW8081B
Endosulfan sulfate	ND	8.1	ug/Kg	2	09/05/19	AW	SW8081B
Endrin	ND	8.1	ug/Kg	2	09/05/19	AW	SW8081B
Endrin aldehyde	ND	8.1	ug/Kg	2	09/05/19	AW	SW8081B
Endrin ketone	ND	8.1	ug/Kg	2	09/05/19	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	09/05/19	AW	SW8081B
Heptachlor	ND	8.1	ug/Kg	2	09/05/19	AW	SW8081B
Heptachlor epoxide	ND	8.1	ug/Kg	2	09/05/19	AW	SW8081B
Methoxychlor	ND	41	ug/Kg	2	09/05/19	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	09/05/19	AW	SW8081B
QA/QC Surrogates							
% DCBP	57		%	2	09/05/19	AW	30 - 150 %
% DCBP (Confirmation)	62		%	2	09/05/19	AW	30 - 150 %
% TCMX	65		%	2	09/05/19	AW	30 - 150 %
% TCMX (Confirmation)	57		%	2	09/05/19	AW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	280	ug/Kg	1	09/05/19	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	09/05/19	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	09/05/19	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	09/05/19	WB	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	09/05/19	WB	SW8270D
Chrysene	ND	280	ug/Kg	1	09/05/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	09/05/19	WB	SW8270D
Fluoranthene	ND	280	ug/Kg	1	09/05/19	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	09/05/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	09/05/19	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	09/05/19	WB	SW8270D
Phenanthrene	ND	280	ug/Kg	1	09/05/19	WB	SW8270D
Pyrene	ND	280	ug/Kg	1	09/05/19	WB	SW8270D
QA/QC Surrogates							

Project ID: 150439023 BURR ELEM SCHOOL
Client ID: BES S100 (2.25-2.5`)

Phoenix I.D.: CD97460

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	51		%	1	09/05/19	WB	30 - 130 %
% Nitrobenzene-d5	49		%	1	09/05/19	WB	30 - 130 %
% Terphenyl-d14	59		%	1	09/05/19	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.

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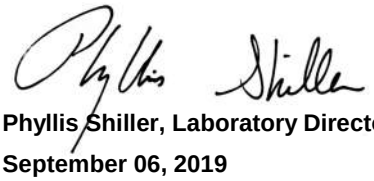

Phyllis Shiller, Laboratory Director

September 06, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

September 06, 2019

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/04/19	12:30
Location Code:	TIGHE-DAS	Received by:	B	09/04/19	15:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCD97460
Phoenix ID: CD97461

Project ID: 150439023 BURR ELEM SCHOOL
Client ID: BES S101 (2.5-2.75`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.01	0.73	mg/Kg	1	09/05/19	EK	SW6010D
Lead	7.42	0.36	mg/Kg	1	09/05/19	EK	SW6010D
Percent Solid	86		%		09/04/19	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				09/04/19	MM/UV	SW3545A
Soil Extraction SVOA PAH	Completed				09/04/19	NT/LV	SW3545A
Extraction of CT ETPH	Completed				09/04/19	GG/LL	SW3545A
Extraction for PCB	Completed				09/04/19	QQ/VT/SB	SW3540C
Total Metals Digest	Completed				09/04/19	JJ/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	09/05/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	09/05/19	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	117		%	1	09/05/19	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	09/05/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	81		%	10	09/05/19	SC	30 - 150 %
% DCBP (Confirmation)	90		%	10	09/05/19	SC	30 - 150 %

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX	99		%	10	09/05/19	SC	30 - 150 %
% TCMX (Confirmation)	88		%	10	09/05/19	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.5	ug/Kg	2	09/05/19	AW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	09/05/19	AW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	09/05/19	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	09/05/19	AW	SW8081B
Alachlor	ND	7.7	ug/Kg	2	09/05/19	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	09/05/19	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	09/05/19	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	09/05/19	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	09/05/19	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	09/05/19	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	09/05/19	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	09/05/19	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	09/05/19	AW	SW8081B
Endrin	ND	7.7	ug/Kg	2	09/05/19	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	09/05/19	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	09/05/19	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	09/05/19	AW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	09/05/19	AW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	09/05/19	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	09/05/19	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	09/05/19	AW	SW8081B
QA/QC Surrogates							
% DCBP	101		%	2	09/05/19	AW	30 - 150 %
% DCBP (Confirmation)	87		%	2	09/05/19	AW	30 - 150 %
% TCMX	106		%	2	09/05/19	AW	30 - 150 %
% TCMX (Confirmation)	74		%	2	09/05/19	AW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	09/05/19	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	09/05/19	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	09/05/19	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	09/05/19	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	09/05/19	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	09/05/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	09/05/19	WB	SW8270D
Fluoranthene	ND	270	ug/Kg	1	09/05/19	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	09/05/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	09/05/19	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	09/05/19	WB	SW8270D
Phenanthrene	ND	270	ug/Kg	1	09/05/19	WB	SW8270D
Pyrene	ND	270	ug/Kg	1	09/05/19	WB	SW8270D
QA/QC Surrogates							

Project ID: 150439023 BURR ELEM SCHOOL
Client ID: BES S101 (2.5-2.75`)

Phoenix I.D.: CD97461

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	62		%	1	09/05/19	WB	30 - 130 %
% Nitrobenzene-d5	65		%	1	09/05/19	WB	30 - 130 %
% Terphenyl-d14	62		%	1	09/05/19	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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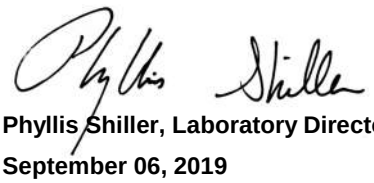

Phyllis Shiller, Laboratory Director

September 06, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

September 06, 2019

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/04/19	12:40
Location Code:	TIGHE-DAS	Received by:	B	09/04/19	15:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCD97460
Phoenix ID: CD97462

Project ID: 150439023 BURR ELEM SCHOOL
Client ID: BES S102 (2.5-2.75`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.70	0.81	mg/Kg	1	09/05/19	EK	SW6010D
Lead	8.30	0.41	mg/Kg	1	09/05/19	EK	SW6010D
Percent Solid	80		%		09/04/19	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				09/04/19	MM/UV	SW3545A
Soil Extraction SVOA PAH	Completed				09/04/19	NT/LV	SW3545A
Extraction of CT ETPH	Completed				09/04/19	GG/LL	SW3545A
Extraction for PCB	Completed				09/04/19	QQ/VT/SB	SW3540C
Total Metals Digest	Completed				09/04/19	JJ/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	61	mg/Kg	1	09/05/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	09/05/19	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	71		%	1	09/05/19	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	410	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1221	ND	410	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1232	ND	410	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1242	ND	410	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1248	ND	410	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1254	ND	410	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1260	ND	410	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1262	ND	410	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1268	ND	410	ug/Kg	10	09/05/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	88		%	10	09/05/19	SC	30 - 150 %
% DCBP (Confirmation)	82		%	10	09/05/19	SC	30 - 150 %

Ver 1

Project ID: 150439023 BURR ELEM SCHOOL
Client ID: BES S102 (2.5-2.75`)

Phoenix I.D.: CD97462

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX	83		%	10	09/05/19	SC	30 - 150 %
% TCMX (Confirmation)	81		%	10	09/05/19	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
4,4' -DDE	ND	2.0	ug/Kg	2	09/05/19	AW	SW8081B
4,4' -DDT	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
a-BHC	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
Alachlor	ND	8.3	ug/Kg	2	09/05/19	AW	SW8081B
Aldrin	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
b-BHC	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
Chlordane	ND	41	ug/Kg	2	09/05/19	AW	SW8081B
d-BHC	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	09/05/19	AW	SW8081B
Endosulfan I	ND	8.3	ug/Kg	2	09/05/19	AW	SW8081B
Endosulfan II	ND	8.3	ug/Kg	2	09/05/19	AW	SW8081B
Endosulfan sulfate	ND	8.3	ug/Kg	2	09/05/19	AW	SW8081B
Endrin	ND	8.3	ug/Kg	2	09/05/19	AW	SW8081B
Endrin aldehyde	ND	8.3	ug/Kg	2	09/05/19	AW	SW8081B
Endrin ketone	ND	8.3	ug/Kg	2	09/05/19	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
Heptachlor	ND	8.3	ug/Kg	2	09/05/19	AW	SW8081B
Heptachlor epoxide	ND	8.3	ug/Kg	2	09/05/19	AW	SW8081B
Methoxychlor	ND	41	ug/Kg	2	09/05/19	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	09/05/19	AW	SW8081B
QA/QC Surrogates							
% DCBP	59		%	2	09/05/19	AW	30 - 150 %
% DCBP (Confirmation)	53		%	2	09/05/19	AW	30 - 150 %
% TCMX	54		%	2	09/05/19	AW	30 - 150 %
% TCMX (Confirmation)	51		%	2	09/05/19	AW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Acenaphthene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Anthracene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Chrysene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Fluoranthene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Fluorene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Naphthalene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Phenanthrene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Pyrene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
QA/QC Surrogates							

Project ID: 150439023 BURR ELEM SCHOOL
Client ID: BES S102 (2.5-2.75`)

Phoenix I.D.: CD97462

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	49		%	1	09/05/19	WB	30 - 130 %
% Nitrobenzene-d5	55		%	1	09/05/19	WB	30 - 130 %
% Terphenyl-d14	50		%	1	09/05/19	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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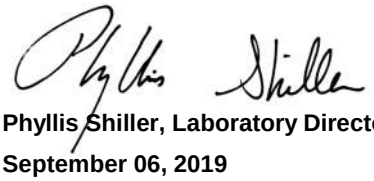

Phyllis Shiller, Laboratory Director

September 06, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

September 06, 2019

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/04/19	12:45
Location Code:	TIGHE-DAS	Received by:	B	09/04/19	15:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCD97460
Phoenix ID: CD97463

Project ID: 150439023 BURR ELEM SCHOOL
Client ID: BES S103 (1.5-2`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.17	0.74	mg/Kg	1	09/05/19	EK	SW6010D
Lead	10.9	0.37	mg/Kg	1	09/05/19	EK	SW6010D
Percent Solid	80		%		09/04/19	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				09/04/19	MM/UV	SW3545A
Soil Extraction SVOA PAH	Completed				09/04/19	NT/LV	SW3545A
Extraction of CT ETPH	Completed				09/04/19	GG/LL	SW3545A
Extraction for PCB	Completed				09/04/19	QQ/VT/SB	SW3540C
Total Metals Digest	Completed				09/04/19	JJ/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	61	mg/Kg	1	09/05/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	09/05/19	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	73		%	1	09/05/19	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	410	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1221	ND	410	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1232	ND	410	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1242	ND	410	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1248	ND	410	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1254	ND	410	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1260	ND	410	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1262	ND	410	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1268	ND	410	ug/Kg	10	09/05/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	81		%	10	09/05/19	SC	30 - 150 %
% DCBP (Confirmation)	71		%	10	09/05/19	SC	30 - 150 %

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX	73		%	10	09/05/19	SC	30 - 150 %
% TCMX (Confirmation)	72		%	10	09/05/19	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
4,4' -DDE	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
4,4' -DDT	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
a-BHC	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
Alachlor	ND	8.3	ug/Kg	2	09/05/19	AW	SW8081B
Aldrin	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
b-BHC	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
Chlordane	ND	41	ug/Kg	2	09/05/19	AW	SW8081B
d-BHC	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	09/05/19	AW	SW8081B
Endosulfan I	ND	8.3	ug/Kg	2	09/05/19	AW	SW8081B
Endosulfan II	ND	8.3	ug/Kg	2	09/05/19	AW	SW8081B
Endosulfan sulfate	ND	8.3	ug/Kg	2	09/05/19	AW	SW8081B
Endrin	ND	8.3	ug/Kg	2	09/05/19	AW	SW8081B
Endrin aldehyde	ND	8.3	ug/Kg	2	09/05/19	AW	SW8081B
Endrin ketone	ND	8.3	ug/Kg	2	09/05/19	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
Heptachlor	ND	8.3	ug/Kg	2	09/05/19	AW	SW8081B
Heptachlor epoxide	ND	8.3	ug/Kg	2	09/05/19	AW	SW8081B
Methoxychlor	ND	41	ug/Kg	2	09/05/19	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	09/05/19	AW	SW8081B
QA/QC Surrogates							
% DCBP	77		%	2	09/05/19	AW	30 - 150 %
% DCBP (Confirmation)	69		%	2	09/05/19	AW	30 - 150 %
% TCMX	69		%	2	09/05/19	AW	30 - 150 %
% TCMX (Confirmation)	66		%	2	09/05/19	AW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Acenaphthene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Anthracene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Chrysene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Fluoranthene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Fluorene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Naphthalene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Phenanthrene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
Pyrene	ND	290	ug/Kg	1	09/05/19	WB	SW8270D
QA/QC Surrogates							

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	48		%	1	09/05/19	WB	30 - 130 %
% Nitrobenzene-d5	42		%	1	09/05/19	WB	30 - 130 %
% Terphenyl-d14	52		%	1	09/05/19	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.

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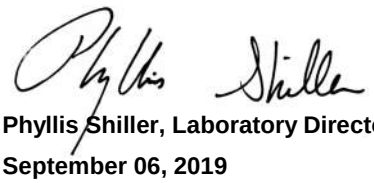

Phyllis Shiller, Laboratory Director

September 06, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

September 06, 2019

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/04/19	13:00
Location Code:	TIGHE-DAS	Received by:	B	09/04/19	15:16
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCD97460
Phoenix ID: CD97464

Project ID: 150439023 BURR ELEM SCHOOL
Client ID: BES S104 (1.5-1.75`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.09	0.76	mg/Kg	1	09/05/19	EK	SW6010D
Lead	12.8	0.38	mg/Kg	1	09/05/19	EK	SW6010D
Percent Solid	77		%		09/04/19	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				09/04/19	MM/UV	SW3545A
Soil Extraction SVOA PAH	Completed				09/04/19	NT/LV	SW3545A
Extraction of CT ETPH	Completed				09/04/19	GG/LL	SW3545A
Extraction for PCB	Completed				09/04/19	QQ/VT/SB	SW3540C
Total Metals Digest	Completed				09/04/19	JJ/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	09/05/19	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	09/05/19	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	71		%	1	09/05/19	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	420	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1221	ND	420	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1232	ND	420	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1242	ND	420	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1248	ND	420	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1254	ND	420	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1260	ND	420	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1262	ND	420	ug/Kg	10	09/05/19	SC	SW8082A
PCB-1268	ND	420	ug/Kg	10	09/05/19	SC	SW8082A
QA/QC Surrogates							
% DCBP	72		%	10	09/05/19	SC	30 - 150 %
% DCBP (Confirmation)	77		%	10	09/05/19	SC	30 - 150 %

Ver 1

Project ID: 150439023 BURR ELEM SCHOOL
Client ID: BES S104 (1.5-1.75`)

Phoenix I.D.: CD97464

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX	71		%	10	09/05/19	SC	30 - 150 %
% TCMX (Confirmation)	70		%	10	09/05/19	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
4,4' -DDE	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
4,4' -DDT	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
a-BHC	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
Alachlor	ND	8.6	ug/Kg	2	09/05/19	AW	SW8081B
Aldrin	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
b-BHC	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
Chlordane	ND	43	ug/Kg	2	09/05/19	AW	SW8081B
d-BHC	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
Dieldrin	ND	4.3	ug/Kg	2	09/05/19	AW	SW8081B
Endosulfan I	ND	8.6	ug/Kg	2	09/05/19	AW	SW8081B
Endosulfan II	ND	8.6	ug/Kg	2	09/05/19	AW	SW8081B
Endosulfan sulfate	ND	8.6	ug/Kg	2	09/05/19	AW	SW8081B
Endrin	ND	8.6	ug/Kg	2	09/05/19	AW	SW8081B
Endrin aldehyde	ND	8.6	ug/Kg	2	09/05/19	AW	SW8081B
Endrin ketone	ND	8.6	ug/Kg	2	09/05/19	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	09/05/19	AW	SW8081B
Heptachlor	ND	8.6	ug/Kg	2	09/05/19	AW	SW8081B
Heptachlor epoxide	ND	8.6	ug/Kg	2	09/05/19	AW	SW8081B
Methoxychlor	ND	43	ug/Kg	2	09/05/19	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	09/05/19	AW	SW8081B
QA/QC Surrogates							
% DCBP	58		%	2	09/05/19	AW	30 - 150 %
% DCBP (Confirmation)	54		%	2	09/05/19	AW	30 - 150 %
% TCMX	53		%	2	09/05/19	AW	30 - 150 %
% TCMX (Confirmation)	52		%	2	09/05/19	AW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	300	ug/Kg	1	09/05/19	WB	SW8270D
Acenaphthene	ND	300	ug/Kg	1	09/05/19	WB	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	09/05/19	WB	SW8270D
Anthracene	ND	300	ug/Kg	1	09/05/19	WB	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	09/05/19	WB	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	09/05/19	WB	SW8270D
Chrysene	ND	300	ug/Kg	1	09/05/19	WB	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	09/05/19	WB	SW8270D
Fluoranthene	ND	300	ug/Kg	1	09/05/19	WB	SW8270D
Fluorene	ND	300	ug/Kg	1	09/05/19	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	09/05/19	WB	SW8270D
Naphthalene	ND	300	ug/Kg	1	09/05/19	WB	SW8270D
Phenanthrene	ND	300	ug/Kg	1	09/05/19	WB	SW8270D
Pyrene	ND	300	ug/Kg	1	09/05/19	WB	SW8270D
QA/QC Surrogates							

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	54		%	1	09/05/19	WB	30 - 130 %
% Nitrobenzene-d5	51		%	1	09/05/19	WB	30 - 130 %
% Terphenyl-d14	65		%	1	09/05/19	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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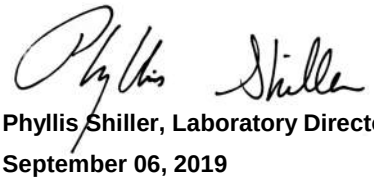

Phyllis Shiller, Laboratory Director

September 06, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

QA/QC Report

September 06, 2019

QA/QC Data

SDG I.D.: GCD97460

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 495216 (mg/kg), QC Sample No: CD97161 (CD97460, CD97461, CD97462, CD97463, CD97464)													
ICP Metals - Soil													
Arsenic	BRL	0.67	4.00	3.83	4.30	116	115	0.9	91.1			75 - 125	30
Lead	BRL	0.33	20.3	26.4	26.1	111	113	1.8	94.5			75 - 125	30

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QA/QC Report

September 06, 2019

QA/QC Data

SDG I.D.: GCD97460

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 495175 (mg/Kg), QC Sample No: CD97040 (CD97460, CD97461, CD97462, CD97463, CD97464)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	80	85	6.1	78	53	38.2	60 - 120	30	r
% n-Pentacosane	66	%	68	74	8.5	89	98	9.6	50 - 150	30	
Comment:											
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.											
QA/QC Batch 495224 (ug/Kg), QC Sample No: CD97107 10X (CD97460, CD97461, CD97462, CD97463, CD97464)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	170	86	90	4.5	65	73	11.6	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	85	104	20.1	75	88	16.0	40 - 140	30	
PCB-1262	ND	170							40 - 140	30	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	95	%	88	109	21.3	77	89	14.5	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	89	%	90	96	6.5	74	79	6.5	30 - 150	30	
% TCMX (Surrogate Rec)	87	%	85	104	20.1	74	85	13.8	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	89	%	88	99	11.8	73	83	12.8	30 - 150	30	
QA/QC Batch 495173 (ug/Kg), QC Sample No: CD96871 2X (CD97460, CD97461, CD97462, CD97463, CD97464)											
Pesticides - Soil											
4,4' -DDD	ND	1.7	84	91	8.0	78	83	6.2	40 - 140	30	
4,4' -DDE	ND	1.7	77	84	8.7	71	76	6.8	40 - 140	30	
4,4' -DDT	ND	1.7	79	84	6.1	73	77	5.3	40 - 140	30	
a-BHC	ND	1.0	83	90	8.1	78	82	5.0	40 - 140	30	
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	1.0	82	89	8.2	77	80	3.8	40 - 140	30	
b-BHC	ND	1.0	112	117	4.4	105	121	14.2	40 - 140	30	
Chlordane	ND	33	85	92	7.9	80	83	3.7	40 - 140	30	
d-BHC	ND	3.3	82	90	9.3	77	80	3.8	40 - 140	30	
Dieldrin	ND	1.0	87	94	7.7	81	85	4.8	40 - 140	30	
Endosulfan I	ND	3.3	94	103	9.1	89	94	5.5	40 - 140	30	
Endosulfan II	ND	3.3	97	103	6.0	89	95	6.5	40 - 140	30	
Endosulfan sulfate	ND	3.3	100	106	5.8	92	99	7.3	40 - 140	30	
Endrin	ND	3.3	78	83	6.2	71	74	4.1	40 - 140	30	
Endrin aldehyde	ND	3.3	97	105	7.9	92	101	9.3	40 - 140	30	
Endrin ketone	ND	3.3	101	108	6.7	93	101	8.2	40 - 140	30	
g-BHC	ND	1.0	83	90	8.1	78	81	3.8	40 - 140	30	
Heptachlor	ND	3.3	79	84	6.1	74	78	5.3	40 - 140	30	

QA/QC Data

SDG I.D.: GCD97460

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Heptachlor epoxide	ND	3.3	80	86	7.2	75	79	5.2	40 - 140	30	
Methoxychlor	ND	3.3	87	92	5.6	79	83	4.9	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	77	%	80	81	1.2	77	85	9.9	30 - 150	30	
% DCBP (Confirmation)	91	%	89	90	1.1	81	86	6.0	30 - 150	30	
% TCMX	79	%	81	93	13.8	77	83	7.5	30 - 150	30	
% TCMX (Confirmation)	75	%	74	77	4.0	68	72	5.7	30 - 150	30	
QA/QC Batch 495186 (ug/kg), QC Sample No: CD97063 (CD97460, CD97461, CD97462, CD97463, CD97464)											
Polynuclear Aromatic HC - Soil											
2-Methylnaphthalene	ND	230	57	55	3.6	57	44	25.7	30 - 130	30	
Acenaphthene	ND	230	65	63	3.1	63	46	31.2	30 - 130	30	r
Acenaphthylene	ND	230	61	58	5.0	59	44	29.1	30 - 130	30	
Anthracene	ND	230	64	65	1.6	61	45	30.2	30 - 130	30	
Benz(a)anthracene	ND	230	67	70	4.4	65	49	28.1	30 - 130	30	
Benzo(a)pyrene	ND	230	73	74	1.4	67	49	31.0	30 - 130	30	r
Benzo(b)fluoranthene	ND	230	69	70	1.4	66	49	29.6	30 - 130	30	
Benzo(ghi)perylene	ND	230	63	60	4.9	57	43	28.0	30 - 130	30	
Benzo(k)fluoranthene	ND	230	70	70	0.0	62	47	27.5	30 - 130	30	
Chrysene	ND	230	62	64	3.2	61	45	30.2	30 - 130	30	
Dibenz(a,h)anthracene	ND	230	68	68	0.0	65	48	30.1	30 - 130	30	
Fluoranthene	ND	230	64	64	0.0	61	46	28.0	30 - 130	30	
Fluorene	ND	230	64	64	0.0	63	46	31.2	30 - 130	30	r
Indeno(1,2,3-cd)pyrene	ND	230	73	72	1.4	67	50	29.1	30 - 130	30	
Naphthalene	ND	230	56	52	7.4	56	44	24.0	30 - 130	30	
Phenanthrene	ND	230	64	64	0.0	62	45	31.8	30 - 130	30	r
Pyrene	ND	230	63	63	0.0	61	46	28.0	30 - 130	30	
% 2-Fluorobiphenyl	60	%	58	55	5.3	56	41	30.9	30 - 130	30	r
% Nitrobenzene-d5	59	%	57	56	1.8	60	45	28.6	30 - 130	30	
% Terphenyl-d14	57	%	54	56	3.6	53	39	30.4	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%)

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

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 06, 2019

Friday, September 06, 2019

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCD97460 - TIGHE-DAS

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

*** No Data to Display ***

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: 150439023 BURR ELEM SCHOOL ***Project Number:***

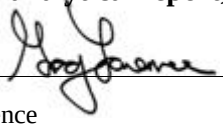
Laboratory Sample ID(s): CD97460-CD97464 ***Sampling Date(s):*** 9/4/2019

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	***VPH and EPH methods only:*** **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?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ 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:** Friday, September 06, 2019

Name of Laboratory Phoenix Environmental Labs, Inc.

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

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

September 06, 2019

SDG I.D.: GCD97460

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 09/04/19-1 Jeff Bucko, Chemist 09/04/19

CD97461

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 (904A003_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: CD97461
Preceding CC 904A028 - Pentacosane 37%H (30%)
Succeeding CC 904A034 - Pentacosane 36%H (30%)

AU-XL2 09/04/19-1 Jeff Bucko, Chemist 09/04/19

CD97460, CD97462, CD97463, CD97464

The initial calibration (ETPH715I) 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 (904A003_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 495175 (CD97040)

CD97460, CD97461, CD97462, CD97463, CD97464

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 09/04/19 08:35 Emily Kolominskaya, Chemist 09/04/19

CD97460, CD97461, CD97462, CD97463, CD97464

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.

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NY # 11301

Certification Report

September 06, 2019

SDG I.D.: GCD97460

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 495216 (CD97161)

CD97460, CD97461, CD97462, CD97463, CD97464

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.

PCB Narration

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

Instrument:

AU-ECD48 09/05/19-1 Saadia Chudary, Chemist 09/05/19

CD97460, CD97461

The initial calibration (PC828AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC828BI) 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 09/05/19-1 Saadia Chudary, Chemist 09/05/19

CD97462, CD97463

The initial calibration (PC816AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC816BI) 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 09/05/19-1 Saadia Chudary, Chemist 09/05/19

CD97464

The initial calibration (PC830AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC830BI) 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 495224 (CD97107)

CD97460, CD97461, CD97462, CD97463, CD97464

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.

PEST Narration

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

Instrument:

AU-ECD35 09/04/19-1 Adam Werner, Chemist 09/04/19

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RCP Certification Report

September 06, 2019

SDG I.D.: GCD97460

PEST Narration

CD97462, CD97463, CD97464

The initial calibration (PS823AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS823BI) 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: CD97462, CD97463, CD97464
Preceding CC 904A070 - Endrin aldehyde 26%H (20%)
Succeeding CC 904A094 - Methoxychlor -21%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.

AU-ECD4 09/05/19-1 Adam Werner, Chemist 09/05/19

CD97460, CD97461

The initial calibration (PS822AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS822BI) 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: CD97460, CD97461
Preceding CC 905A004 - b-BHC 25%H (20%), Endosulfan sulfate 21%H (20%)
Succeeding CC 905A022 - b-BHC 24%H (20%), Endrin aldehyde 21%H (20%)

QC (Batch Specific):

Batch 495173 (CD96871)

CD97460, CD97461, CD97462, CD97463, CD97464

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.

SVOA Narration

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

Instrument:

CHEM05 09/04/19-1 Matt Richard, Chemist 09/04/19

CD97460, CD97461, CD97462, CD97463, CD97464

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_bn_0820):
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 (CHEM05/0904_06-5_bn_0820):

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

September 06, 2019

SDG I.D.: GCD97460

SVOA Narration

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 495186 (CD97063)

CD97460, CD97461, CD97462, CD97463, CD97464

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 2.0C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☑ No ☐
Coolant: IPK ☐ ICE ☑ No ☐

CHAIN OF CUSTODY RECORD

Temp 0.4 °C Pg 1 of 1

PHOENIX
Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☒ Email: On file

Customer: Tighe and Bond
Address: 213 Court St Suite 1100
Middletown CT 06457

Project: 150439023-Burr Elem. School
Report to: Jim Olsen, Jill Libby, Brian Sirowich
Invoice to: Tighe & Bond
QUOTE #

Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 9/4

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = S (Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Arsenic	ETPHs	Lead	PAHs 8270 SIM	Pesticides	PCBs SOX	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8)oz	GL Soil container ( )oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ]250ml [ ]500ml [ ]1000ml	PL H2SO4 [ ]250ml [ ]500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
97460	BES S100 (2.25-2.5')	S	9/4	12:25	X	X	X	X	X	X	X		1									
97461	BES S101 (2.5-2.75')	↓	↓	12:30	↓	↓	↓	↓		↓	↓		↓									
97462	BES S102 (2.5-2.75')			12:40																		
97463	BES S103 (1.5-2')			12:45																		
97464	BES S104 (1.5-1.75')			1:00																		

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	9.4.19	19:10
[signature]	[signature]	9/4/19	15:16

Comments, Special Requirements or Regulations:
DAS Pricing

Turnaround Time:
☑ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ (Residential) Direct Exposure
☐ (Comm/Industrial) Direct Exposure
☐ GA Leachability
☐ GB Leachability
☐ GA-GW Objectives
☐ GB-GW Objectives

CT
☑ RCP Cert
☐ GW Protection
☐ SW Protection
☑ GA Mobility
☐ GB Mobility
☑ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1 ☐ MWRA 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

State where samples were collected: CT

Data Format
☑ Excel
☑ PDF
☐ GIS/Key
☐ EQuIS
☑ Other EnviroData

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☑ Phoenix Std Report
☐ Other
* SURCHARGE APPLIES

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 - Burr Elementary School
EAS Batch No. 1907390

Dear Mr. Olsen:

Enclosed please find the laboratory results for the 5 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

Eastern Analytical Services, Inc.

Bulk Sample Results

RE: CPN 150439023 - Burr Elementary School

Client: Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Date Collected : 09/06/2019
Collected By : Brian Sirowich
Date Received : 09/06/2019
Date Analyzed : 09/07/2019
Analyzed By : Ghayath Elias
Signature :
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		BES S100	BES S101	BES S102	BES S103
Layer Number					
Lab ID Number		2642351	2642352	2642353	2642354
Sample Location		Not Given	Not Given	Not Given	Not Given
Sample Description		Not Given	Not Given	Not Given	Not Given
Method of Quantification		Visual Estimation	Visual Estimation	Visual Estimation	Visual Estimation
Appearance	Layered	No	No	No	No
	Homogenous	No	No	No	No
	Fibrous	Yes	No	No	No
	Color	Brown	Brown	Brown	Brown
Sample Treatment		Homogenized	Homogenized	Homogenized	Homogenized
Asbestos Content	% Amosite	0.0	0.0	0.0	0.0
	% 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 Materials Present	% Fibrous Glass	0.0	0.0	0.0	0.0
	% Cellulose	2.0	1.0	1.0	1.0
	% Other	0.0	0.0	0.0	0.0
	% Unidentified	0.0	0.0	0.0	0.0
Non-Fibrous Materials Present	% Silicates	30.0	30.0	30.0	30.0
	% Carbonates	20.0	20.0	20.0	20.0
	% Other	0.0	0.0	0.0	0.0
	% Unidentified	48.0	49.0	49.0	49.0

Eastern Analytical Services, Inc.

Bulk Sample Results

RE: CPN 150439023 - Burr Elementary School

Client: Tighe & Bond
53 Southampton Road
Westfield, MA 01085

Date Collected : 09/06/2019
Collected By : Brian Sirowich
Date Received : 09/06/2019
Date Analyzed : 09/07/2019
Analyzed By : Ghayath Elias
Signature :
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	BES S104
Layer Number	
Lab ID Number	2642355
Sample Location	Not Given
Sample Description	Not Given
Method of Quantification	Visual Estimation

Appearance	Layered	No
	Homogenous	No
	Fibrous	No
	Color	Brown
Sample Treatment		Homogenized

Asbestos Content	% Amosite	0.0
	% Chrysotile	0.0
	% Other	0.0
	% Total Asbestos	0.0
Other Fibrous Materials Present	% Fibrous Glass	0.0
	% Cellulose	2.0
	% Other	0.0
	% Unidentified	0.0
Non-Fibrous Materials Present	% Silicates	30.0
	% Carbonates	20.0
	% Other	0.0
	% Unidentified	48.0

Eastern Analytical Services, Inc.
Chain of Custody Form

EAS Client:	Tighe & Bond 53 Southampton Road Westfield, MA 01085	EAS Batch No.	1907390
		Turn-Around:	12 Hr
		Shipped Via:	Walk In
Analyte:	% Asb	State of Origin:	CT
No. of Samples Received:	5	Sample Disposition:	Standard x Return
No. of Samples Analyzed:	5		
Client Project Number/Name:	RE: CPN 150439023 - Burr Elementary School		

Lab ID Numbers: 2642351-2642355

Collected By:	Brian Sirowich	_____ Signature	Date: 09/06/2019	
Received By:	Ghayath Elias		Date: 09/06/2019	Time: 1627
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: 1130
Re-Analyzed By:	Ghayath Elias		Date: 09/07/2019	
Checked By:	Damien Warner		Date: 09/07/2019	
E-Transmitted By:	Damien Warner		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

CHAIN OF CUSTODY

2642351 BES S100 BES S102 2642353
2642352 BES S101 BES S103 2642354
BES S104 2642355

EAS Client: Tighe and Bond
53 Southampton Road
Westfield, MA 01085

No. of Samples: 5

Turn-Around: ☐03Hr ☐06Hr ☒12Hr ☐24Hr ☐30Hr ☐48Hr ☐72Hr ☐96Hr ☐5Day ☐Other____

Analyte:

Asbestos	**Lead**	**Fungi**
☒ PLM	☐ Solid	☐ Spore Trap
☐ NOB PLM Only	☐ Dust	☐ Tape Lift
☐ NOB TEM Only	☐ Air	
☐ NOB PLM/TEM	☐ Water	**Other**
☐ NOB TEM/PLM	☐ Other	**Analyte**
☐ Air 7400 (PCM)	_____	_____
☐ Air AHERA (TEM)		
☐ Air 7402 (TEM)	**TCLP**	
☐ Water (TEM)	☐ Pb Only	
☐ Other _____	☐ 8 RCRA	

Shipped Via: ☐ US Mail ☒ Walk In ☐ FedEx ☐ US Exp ☐ UPS ☐ Courier ☐ Drop Box ☐ Other _____

State of Origin: ☐ NY ☒ CT ☐ NJ ☐ PA ☐ MA ☐ RI ☐ ME ☐ VT ☐ Other _____

Sample Disposition: ☑ (Std.) ☐ (Return)

Client Project Name/Number: 150439023 - Burr Elementary School

Sampled By: Brian Sirowich (Name (Print or Type)) _____ (Signature) 9/6/19 (Date)

Submitted By: Ian Adomeit (Name (Print or Type)) _____ (Signature) 9/6/19 (Date)

Comments: E-mail results to bsirowich@tighebond.com, JLLibby@tighebond.com, and jtolsen@tighebond.com

FOR LABORATORY USE ONLY

Account Number: _____

	Name (Print)	Signature	Date	Time
Received By:	G. MG	_____	SEP 6'19	16:27
Logged-In By:				
Prepped By:				
Analyzed By:				
Re-Analyzed By:				
Checked By:				
Logged-Out By:				

PLM Analysis Memo

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 **Ceiling 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 http://lwd.dol.state.nj.us/labor/lsse/laws/Asbestos_law.html#5a39.

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

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

Fax (914) 592-8956

4 Westchester Plaza
Elmsford, New York 10523-1610
Federal ID #11-2753797

CLIENT Tighe & Bond
53 Southampton Road
Westfield, MA 01085

INVOICE № 1024430

DATE 09/09/2019

P.O. NUMBER

TERMS 1%/10, Net 30,
1.5% Int 30+

Account No. 040136

EAS Batch No. 1907390

DATE	DESCRIPTION	PRICE
09/07/2019	Analytical Services (12 Hr Turn-Around)	
	RE: CPN 150439023 - Burr Elementary School	
	Fiber Identification Polarized Light Microscopy	
	5 Samples @ $13.00 /Sample	$65.00
	Total	$65.00

Please Reference Invoice Number with Payment

PHOENIX
Environmental Laboratories, Inc.

Friday, September 03, 2021

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

Project ID: BURR ELEMENTARY SCHOOL
SDG ID: GCJ12755
Sample ID#s: CJ12755 - CJ12767

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

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

September 03, 2021

SDG I.D.: GCJ12755

Project ID: BURR ELEMENTARY SCHOOL

Client Id	Lab Id	Matrix
BES201 (0-0.5)	CJ12755	SOIL
BES202 (0-0.5)	CJ12756	SOIL
BES203 (0-0.5)	CJ12757	SOIL
BES204 (0-0.5)	CJ12758	SOIL
BES205 (0-0.5)	CJ12759	SOIL
BES206 (0-0.5)	CJ12760	SOIL
BES207 (0-0.5)	CJ12761	SOIL
BES208 (0-0.5)	CJ12762	SOIL
BES209 (0-0.5)	CJ12763	SOIL
BES210 (0-0.5)	CJ12764	SOIL
BES BACK 1 (0-0.5)	CJ12765	SOIL
BES BACK 2 (0-0.5)	CJ12766	SOIL
BES BACK 3 (0-0.5)	CJ12767	SOIL

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/24/21	10:05
Location Code:	TIGHE-DAS	Received by:	CP	08/24/21	16:50
Rush Request:	96 Hour	Analyzed by:	see "By" below		
P.O.#:	150439 BURR				

Laboratory Data

SDG ID: GCJ12755
Phoenix ID: CJ12755

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES201 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	71		%		08/24/21	JS	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/25/21	R/YE	SW3546
SPLP Extraction for Organics	Completed				08/31/21	AB	SW1312
SPLP Pesticides Ext.	Completed				09/01/21	CC/N	SW3510C
Pesticides							
4,4' -DDD	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
4,4' -DDE	20	9.2	ug/Kg	2	08/27/21	AW	SW8081B
4,4' -DDT	13	9.2	ug/Kg	2	08/27/21	AW	SW8081B
a-BHC	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
Alachlor	ND	9.2	ug/Kg	2	08/27/21	AW	SW8081B
Aldrin	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
b-BHC	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
Chlordane	ND	46	ug/Kg	2	08/27/21	AW	SW8081B
d-BHC	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
Dieldrin	19	4.6	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan I	ND	9.2	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan II	ND	9.2	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan sulfate	ND	9.2	ug/Kg	2	08/27/21	AW	SW8081B
Endrin	ND	9.2	ug/Kg	2	08/27/21	AW	SW8081B
Endrin aldehyde	ND	9.2	ug/Kg	2	08/27/21	AW	SW8081B
Endrin ketone	ND	9.2	ug/Kg	2	08/27/21	AW	SW8081B
g-BHC	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
Heptachlor	ND	9.2	ug/Kg	2	08/27/21	AW	SW8081B
Heptachlor epoxide	ND	9.2	ug/Kg	2	08/27/21	AW	SW8081B
Methoxychlor	ND	46	ug/Kg	2	08/27/21	AW	SW8081B
Toxaphene	ND	180	ug/Kg	2	08/27/21	AW	SW8081B

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES201 (0-0.5)

Phoenix I.D.: CJ12755

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% DCBP	84		%	2	08/27/21	AW	30 - 150 %
% DCBP (Confirmation)	98		%	2	08/27/21	AW	30 - 150 %
% TCMX	80		%	2	08/27/21	AW	30 - 150 %
% TCMX (Confirmation)	95		%	2	08/27/21	AW	30 - 150 %
SPLP Pesticides							
4,4' -DDD	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
4,4' -DDE	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
4,4' -DDT	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
a-BHC	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Alachlor	ND	0.009	ug/L	1	09/03/21	KCA	SW8081B
Aldrin	ND	0.003	ug/L	1	09/03/21	KCA	SW8081B
b-BHC	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Chlordane	ND	0.047	ug/L	1	09/03/21	KCA	SW8081B
d-BHC	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Dieldrin	0.007	0.002	ug/L	1	09/03/21	KCA	SW8081B
Endosulfan I	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Endosulfan II	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Endosulfan sulfate	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Endrin	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Endrin aldehyde	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Endrin Ketone	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
g-BHC	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Heptachlor	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Heptachlor epoxide	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Methoxychlor	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Toxaphene	ND	0.19	ug/L	1	09/03/21	KCA	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	83		%	1	09/03/21	KCA	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	67		%	1	09/03/21	KCA	30 - 150 %
%TCMX (Surrogate Rec)	76		%	1	09/03/21	KCA	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	75		%	1	09/03/21	KCA	30 - 150 %

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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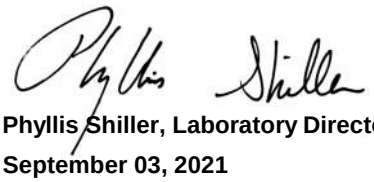

Phyllis Shiller, Laboratory Director
September 03, 2021
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Ver 2

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

Analysis Report

September 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/24/21	10:07
Location Code:	TIGHE-DAS	Received by:	CP	08/24/21	16:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	150439 BURR				

Laboratory Data

SDG ID: GCJ12755
Phoenix ID: CJ12756

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES202 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	75		%		08/24/21	JS	SW846-%Solid
Extraction for PCB	Completed				08/24/21	X/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1221	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1232	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1242	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1248	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1254	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1260	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1262	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1268	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
QA/QC Surrogates							
% DCBP	84		%	5	08/25/21	SC	30 - 150 %
% DCBP (Confirmation)	83		%	5	08/25/21	SC	30 - 150 %
% TCMX	78		%	5	08/25/21	SC	30 - 150 %
% TCMX (Confirmation)	79		%	5	08/25/21	SC	30 - 150 %

Parameter	Result	RL/ 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.
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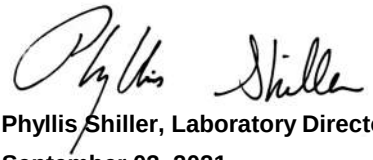

Phyllis Shiller, Laboratory Director

September 03, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

September 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/24/21	10:10
Location Code:	TIGHE-DAS	Received by:	CP	08/24/21	16:50
Rush Request:	96 Hour	Analyzed by:	see "By" below		
P.O.#:	150439 BURR				

Laboratory Data

SDG ID: GCJ12755
Phoenix ID: CJ12757

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES203 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	5.10	0.88	mg/Kg	1	08/25/21	TH	SW6010D
Lead	16.2	0.44	mg/Kg	1	08/25/21	TH	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	09/01/21	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	09/01/21	CPP	SW6010D
SPLP Metals Digestion	Completed				09/01/21	CG/CG	SW3010A
Percent Solid	72		%		08/24/21	JS	SW846-%Solid
Extraction of ETPH	Completed				08/24/21	I/E	SW3546
Soil Extraction for Pesticide	Completed				08/25/21	R/YE	SW3546
Soil Extraction for SVOA PAH	Completed				08/24/21	I/Y/K	SW3546
Extraction for PCB	Completed				08/24/21	X/KL	SW3540C
SPLP Extraction for Metals	Completed				08/31/21	AB	SW1312
SPLP Extraction for Organics	Completed				08/31/21	AB	SW1312
SPLP Pesticides Ext.	Completed				09/01/21	CC/N	SW3510C
Total Metals Digest	Completed				08/24/21	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	68	mg/Kg	1	08/25/21	KCA	CTETPH 8015D
Identification	ND		mg/Kg	1	08/25/21	KCA	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	58		%	1	08/25/21	KCA	50 - 150 %
% Terphenyl (surr)	69		%	1	08/25/21	KCA	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	230	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1221	ND	230	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1232	ND	230	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1242	ND	230	ug/Kg	5	08/25/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1248	ND	230	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1254	ND	230	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1260	ND	230	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1262	ND	230	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1268	ND	230	ug/Kg	5	08/25/21	SC	SW8082A
QA/QC Surrogates							
% DCBP	48		%	5	08/25/21	SC	30 - 150 %
% DCBP (Confirmation)	46		%	5	08/25/21	SC	30 - 150 %
% TCMX	45		%	5	08/25/21	SC	30 - 150 %
% TCMX (Confirmation)	46		%	5	08/25/21	SC	30 - 150 %
Pesticides							
4,4' -DDD	7.1	1.8	ug/Kg	2	08/27/21	AW	SW8081B
4,4' -DDE	27	9.1	ug/Kg	2	08/27/21	AW	SW8081B
4,4' -DDT	43	9.1	ug/Kg	2	08/27/21	AW	SW8081B
a-BHC	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
Alachlor	ND	9.1	ug/Kg	2	08/27/21	AW	SW8081B
Aldrin	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
b-BHC	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
Chlordane	ND	45	ug/Kg	2	08/27/21	AW	SW8081B
d-BHC	ND	2.0	ug/Kg	2	08/27/21	AW	SW8081B
Dieldrin	12	4.5	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan I	ND	9.1	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan II	ND	9.1	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan sulfate	ND	9.1	ug/Kg	2	08/27/21	AW	SW8081B
Endrin	ND	9.1	ug/Kg	2	08/27/21	AW	SW8081B
Endrin aldehyde	ND	9.1	ug/Kg	2	08/27/21	AW	SW8081B
Endrin ketone	ND	9.1	ug/Kg	2	08/27/21	AW	SW8081B
g-BHC	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
Heptachlor	ND	9.1	ug/Kg	2	08/27/21	AW	SW8081B
Heptachlor epoxide	ND	9.1	ug/Kg	2	08/27/21	AW	SW8081B
Methoxychlor	ND	45	ug/Kg	2	08/27/21	AW	SW8081B
Toxaphene	ND	180	ug/Kg	2	08/27/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	75		%	2	08/27/21	AW	30 - 150 %
% DCBP (Confirmation)	84		%	2	08/27/21	AW	30 - 150 %
% TCMX	74		%	2	08/27/21	AW	30 - 150 %
% TCMX (Confirmation)	81		%	2	08/27/21	AW	30 - 150 %
SPLP Pesticides							
4,4' -DDD	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
4,4' -DDE	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
4,4' -DDT	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
a-BHC	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Alachlor	ND	0.010	ug/L	1	09/03/21	KCA	SW8081B
Aldrin	ND	0.003	ug/L	1	09/03/21	KCA	SW8081B
b-BHC	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Chlordane	ND	0.050	ug/L	1	09/03/21	KCA	SW8081B
d-BHC	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Dieldrin	ND	0.002	ug/L	1	09/03/21	KCA	SW8081B

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES203 (0-0.5)

Phoenix I.D.: CJ12757

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan I	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Endosulfan II	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Endosulfan sulfate	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Endrin	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Endrin aldehyde	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Endrin Ketone	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
g-BHC	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Heptachlor	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Heptachlor epoxide	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Methoxychlor	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Toxaphene	ND	0.20	ug/L	1	09/03/21	KCA	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	91		%	1	09/03/21	KCA	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	64		%	1	09/03/21	KCA	30 - 150 %
%TCMX (Surrogate Rec)	82		%	1	09/03/21	KCA	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	84		%	1	09/03/21	KCA	30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Acenaphthene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Acenaphthylene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Anthracene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Benz(a)anthracene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(a)pyrene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(b)fluoranthene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(ghi)perylene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(k)fluoranthene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Chrysene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Fluoranthene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Fluorene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Naphthalene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Phenanthrene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Pyrene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	79		%	1	08/25/21	WB	30 - 130 %
% Nitrobenzene-d5	72		%	1	08/25/21	WB	30 - 130 %
% Terphenyl-d14	91		%	1	08/25/21	WB	30 - 130 %

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES203 (0-0.5)

Phoenix I.D.: CJ12757

Parameter	Result	RL/ 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.
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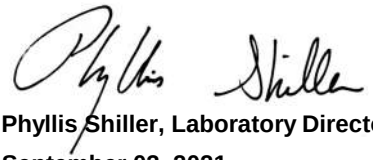

Phyllis Shiller, Laboratory Director

September 03, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

September 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/24/21	10:12
Location Code:	TIGHE-DAS	Received by:	CP	08/24/21	16:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	150439 BURR				

Laboratory Data

SDG ID: GCJ12755
Phoenix ID: CJ12758

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES204 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	74		%		08/24/21	JS	SW846-%Solid
Extraction for PCB	Completed				08/24/21	X/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1221	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1232	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1242	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1248	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1254	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1260	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1262	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1268	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
QA/QC Surrogates							
% DCBP	87		%	5	08/25/21	SC	30 - 150 %
% DCBP (Confirmation)	86		%	5	08/25/21	SC	30 - 150 %
% TCMX	87		%	5	08/25/21	SC	30 - 150 %
% TCMX (Confirmation)	87		%	5	08/25/21	SC	30 - 150 %

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES204 (0-0.5)

Phoenix I.D.: CJ12758

Parameter	Result	RL/ 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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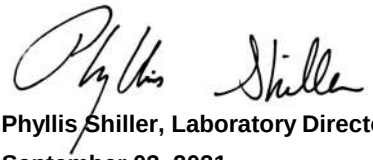

Phyllis Shiller, Laboratory Director

September 03, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

September 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/24/21	10:15
Location Code:	TIGHE-DAS	Received by:	CP	08/24/21	16:50
Rush Request:	96 Hour	Analyzed by:	see "By" below		
P.O.#:	150439 BURR				

Laboratory Data

SDG ID: GCJ12755
Phoenix ID: CJ12759

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES205 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	73		%		08/24/21	JS	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/25/21	R/YE	SW3546
SPLP Extraction for Organics	Completed				08/31/21	AB	SW1312
SPLP Pesticides Ext.	Completed				09/01/21	CC/N	SW3510C
Pesticides							
4,4' -DDD	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
4,4' -DDE	4.2	1.8	ug/Kg	2	08/27/21	AW	SW8081B
4,4' -DDT	8.0	1.8	ug/Kg	2	08/27/21	AW	SW8081B
a-BHC	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
Alachlor	ND	8.9	ug/Kg	2	08/27/21	AW	SW8081B
Aldrin	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
b-BHC	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
Chlordane	ND	45	ug/Kg	2	08/27/21	AW	SW8081B
d-BHC	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
Dieldrin	7.3	4.5	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan I	ND	8.9	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan II	ND	8.9	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan sulfate	ND	8.9	ug/Kg	2	08/27/21	AW	SW8081B
Endrin	ND	8.9	ug/Kg	2	08/27/21	AW	SW8081B
Endrin aldehyde	ND	8.9	ug/Kg	2	08/27/21	AW	SW8081B
Endrin ketone	ND	8.9	ug/Kg	2	08/27/21	AW	SW8081B
g-BHC	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
Heptachlor	ND	8.9	ug/Kg	2	08/27/21	AW	SW8081B
Heptachlor epoxide	ND	8.9	ug/Kg	2	08/27/21	AW	SW8081B
Methoxychlor	ND	45	ug/Kg	2	08/27/21	AW	SW8081B
Toxaphene	ND	180	ug/Kg	2	08/27/21	AW	SW8081B

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES205 (0-0.5)

Phoenix I.D.: CJ12759

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% DCBP	76		%	2	08/27/21	AW	30 - 150 %
% DCBP (Confirmation)	85		%	2	08/27/21	AW	30 - 150 %
% TCMX	68		%	2	08/27/21	AW	30 - 150 %
% TCMX (Confirmation)	80		%	2	08/27/21	AW	30 - 150 %
SPLP Pesticides							
4,4' -DDD	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
4,4' -DDE	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
4,4' -DDT	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
a-BHC	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Alachlor	ND	0.010	ug/L	1	09/03/21	KCA	SW8081B
Aldrin	ND	0.003	ug/L	1	09/03/21	KCA	SW8081B
b-BHC	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Chlordane	ND	0.048	ug/L	1	09/03/21	KCA	SW8081B
d-BHC	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Dieldrin	ND	0.002	ug/L	1	09/03/21	KCA	SW8081B
Endosulfan I	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Endosulfan II	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Endosulfan sulfate	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Endrin	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Endrin aldehyde	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Endrin Ketone	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
g-BHC	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Heptachlor	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Heptachlor epoxide	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Methoxychlor	ND	0.005	ug/L	1	09/03/21	KCA	SW8081B
Toxaphene	ND	0.19	ug/L	1	09/03/21	KCA	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	95		%	1	09/03/21	KCA	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	63		%	1	09/03/21	KCA	30 - 150 %
%TCMX (Surrogate Rec)	97		%	1	09/03/21	KCA	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	83		%	1	09/03/21	KCA	30 - 150 %

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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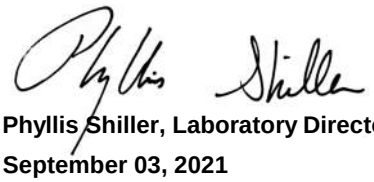

Phyllis Shiller, Laboratory Director
September 03, 2021
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Ver 2

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

Analysis Report

September 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/24/21	10:18
Location Code:	TIGHE-DAS	Received by:	CP	08/24/21	16:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	150439 BURR				

Laboratory Data

SDG ID: GCJ12755
Phoenix ID: CJ12760

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES206 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	65		%		08/24/21	JS	SW846-%Solid
Extraction for PCB	Completed				08/24/21	X/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	250	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1221	ND	250	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1232	ND	250	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1242	ND	250	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1248	ND	250	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1254	ND	250	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1260	ND	250	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1262	ND	250	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1268	ND	250	ug/Kg	5	08/25/21	SC	SW8082A
QA/QC Surrogates							
% DCBP	93		%	5	08/25/21	SC	30 - 150 %
% DCBP (Confirmation)	91		%	5	08/25/21	SC	30 - 150 %
% TCMX	96		%	5	08/25/21	SC	30 - 150 %
% TCMX (Confirmation)	96		%	5	08/25/21	SC	30 - 150 %

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES206 (0-0.5)

Phoenix I.D.: CJ12760

Parameter	Result	RL/ 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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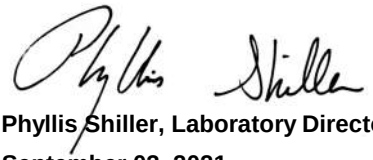

Phyllis Shiller, Laboratory Director

September 03, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/24/21	10:20
Location Code:	TIGHE-DAS	Received by:	CP	08/24/21	16:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	150439 BURR				

Laboratory Data

SDG ID: GCJ12755
Phoenix ID: CJ12761

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES207 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	72		%		08/24/21	JS	SW846-%Solid
Extraction for PCB	Completed				08/24/21	X/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1221	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1232	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1242	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1248	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1254	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1260	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1262	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1268	ND	220	ug/Kg	5	08/25/21	SC	SW8082A
QA/QC Surrogates							
% DCBP	90		%	5	08/25/21	SC	30 - 150 %
% DCBP (Confirmation)	90		%	5	08/25/21	SC	30 - 150 %
% TCMX	90		%	5	08/25/21	SC	30 - 150 %
% TCMX (Confirmation)	90		%	5	08/25/21	SC	30 - 150 %

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES207 (0-0.5)

Phoenix I.D.: CJ12761

Parameter	Result	RL/ 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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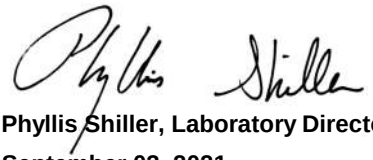

Phyllis Shiller, Laboratory Director

September 03, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

September 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/24/21	10:22
Location Code:	TIGHE-DAS	Received by:	CP	08/24/21	16:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	150439 BURR				

Laboratory Data

SDG ID: GCJ12755
Phoenix ID: CJ12762

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES208 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.98	0.93	mg/Kg	1	08/25/21	TH	SW6010D
Lead	13.4	0.47	mg/Kg	1	08/25/21	TH	SW6010D
Percent Solid	64		%		08/24/21	JS	SW846-%Solid
Extraction of ETPH	Completed				08/24/21	I/E	SW3546
Soil Extraction for Pesticide	Completed				08/25/21	R/YE	SW3546
Soil Extraction for SVOA PAH	Completed				08/24/21	I/Y/K	SW3546
Extraction for PCB	Completed				08/24/21	X/KL	SW3540C
Total Metals Digest	Completed				08/24/21	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	77	mg/Kg	1	08/25/21	KCA	CTETPH 8015D
Identification	ND		mg/Kg	1	08/25/21	KCA	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	68		%	1	08/25/21	KCA	50 - 150 %
% Terphenyl (surr)	74		%	1	08/25/21	KCA	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	260	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1221	ND	260	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1232	ND	260	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1242	ND	260	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1248	ND	260	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1254	ND	260	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1260	ND	260	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1262	ND	260	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1268	ND	260	ug/Kg	5	08/25/21	SC	SW8082A
QA/QC Surrogates							

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% DCBP	85		%	5	08/25/21	SC	30 - 150 %
% DCBP (Confirmation)	84		%	5	08/25/21	SC	30 - 150 %
% TCMX	76		%	5	08/25/21	SC	30 - 150 %
% TCMX (Confirmation)	76		%	5	08/25/21	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	2.0	ug/Kg	2	08/27/21	AW	SW8081B
4,4' -DDE	ND	2.0	ug/Kg	2	08/27/21	AW	SW8081B
4,4' -DDT	ND	2.0	ug/Kg	2	08/27/21	AW	SW8081B
a-BHC	ND	2.0	ug/Kg	2	08/27/21	AW	SW8081B
Alachlor	ND	10	ug/Kg	2	08/27/21	AW	SW8081B
Aldrin	ND	2.0	ug/Kg	2	08/27/21	AW	SW8081B
b-BHC	ND	2.0	ug/Kg	2	08/27/21	AW	SW8081B
Chlordane	ND	51	ug/Kg	2	08/27/21	AW	SW8081B
d-BHC	ND	2.0	ug/Kg	2	08/27/21	AW	SW8081B
Dieldrin	ND	5.1	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan I	ND	10	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan II	ND	10	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan sulfate	ND	10	ug/Kg	2	08/27/21	AW	SW8081B
Endrin	ND	10	ug/Kg	2	08/27/21	AW	SW8081B
Endrin aldehyde	ND	10	ug/Kg	2	08/27/21	AW	SW8081B
Endrin ketone	ND	10	ug/Kg	2	08/27/21	AW	SW8081B
g-BHC	ND	2.0	ug/Kg	2	08/27/21	AW	SW8081B
Heptachlor	ND	10	ug/Kg	2	08/27/21	AW	SW8081B
Heptachlor epoxide	ND	10	ug/Kg	2	08/27/21	AW	SW8081B
Methoxychlor	ND	51	ug/Kg	2	08/27/21	AW	SW8081B
Toxaphene	ND	200	ug/Kg	2	08/27/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	83		%	2	08/27/21	AW	30 - 150 %
% DCBP (Confirmation)	91		%	2	08/27/21	AW	30 - 150 %
% TCMX	75		%	2	08/27/21	AW	30 - 150 %
% TCMX (Confirmation)	90		%	2	08/27/21	AW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	360	ug/Kg	1	08/25/21	WB	SW8270D
Acenaphthene	ND	360	ug/Kg	1	08/25/21	WB	SW8270D
Acenaphthylene	ND	360	ug/Kg	1	08/25/21	WB	SW8270D
Anthracene	ND	360	ug/Kg	1	08/25/21	WB	SW8270D
Benz(a)anthracene	ND	360	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(a)pyrene	ND	360	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(b)fluoranthene	ND	360	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(ghi)perylene	ND	360	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(k)fluoranthene	ND	360	ug/Kg	1	08/25/21	WB	SW8270D
Chrysene	ND	360	ug/Kg	1	08/25/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	360	ug/Kg	1	08/25/21	WB	SW8270D
Fluoranthene	ND	360	ug/Kg	1	08/25/21	WB	SW8270D
Fluorene	ND	360	ug/Kg	1	08/25/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	360	ug/Kg	1	08/25/21	WB	SW8270D
Naphthalene	ND	360	ug/Kg	1	08/25/21	WB	SW8270D
Phenanthrene	ND	360	ug/Kg	1	08/25/21	WB	SW8270D

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES208 (0-0.5)

Phoenix I.D.: CJ12762

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Pyrene	ND	360	ug/Kg	1	08/25/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	08/25/21	WB	30 - 130 %
% Nitrobenzene-d5	61		%	1	08/25/21	WB	30 - 130 %
% Terphenyl-d14	90		%	1	08/25/21	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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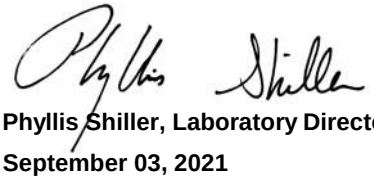

Phyllis Shiller, Laboratory Director
September 03, 2021
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

September 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/24/21	10:25
Location Code:	TIGHE-DAS	Received by:	CP	08/24/21	16:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	150439 BURR				

Laboratory Data

SDG ID: GCJ12755
Phoenix ID: CJ12763

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES209 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	78		%		08/24/21	JS	SW846-%Solid
Extraction for PCB	Completed				08/24/21	X/KL	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	210	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1221	ND	210	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1232	ND	210	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1242	ND	210	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1248	ND	210	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1254	ND	210	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1260	ND	210	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1262	ND	210	ug/Kg	5	08/25/21	SC	SW8082A
PCB-1268	ND	210	ug/Kg	5	08/25/21	SC	SW8082A
QA/QC Surrogates							
% DCBP	92		%	5	08/25/21	SC	30 - 150 %
% DCBP (Confirmation)	90		%	5	08/25/21	SC	30 - 150 %
% TCMX	86		%	5	08/25/21	SC	30 - 150 %
% TCMX (Confirmation)	87		%	5	08/25/21	SC	30 - 150 %

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES209 (0-0.5)

Phoenix I.D.: CJ12763

Parameter	Result	RL/ 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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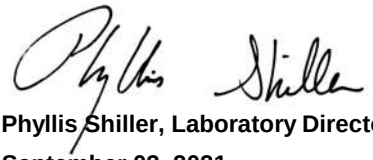

Phyllis Shiller, Laboratory Director

September 03, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

September 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/24/21	10:27
Location Code:	TIGHE-DAS	Received by:	CP	08/24/21	16:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	150439 BURR				

Laboratory Data

SDG ID: GCJ12755
Phoenix ID: CJ12764

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES210 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	66		%		08/24/21	JS	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/25/21	R/YE	SW3546
Pesticides							
4,4' -DDD	ND	2.0	ug/Kg	2	08/27/21	AW	SW8081B
4,4' -DDE	ND	2.0	ug/Kg	2	08/27/21	AW	SW8081B
4,4' -DDT	ND	3.0	ug/Kg	2	08/27/21	AW	SW8081B
a-BHC	ND	2.0	ug/Kg	2	08/27/21	AW	SW8081B
Alachlor	ND	9.9	ug/Kg	2	08/27/21	AW	SW8081B
Aldrin	ND	2.0	ug/Kg	2	08/27/21	AW	SW8081B
b-BHC	ND	2.0	ug/Kg	2	08/27/21	AW	SW8081B
Chlordane	ND	49	ug/Kg	2	08/27/21	AW	SW8081B
d-BHC	ND	2.0	ug/Kg	2	08/27/21	AW	SW8081B
Dieldrin	ND	4.9	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan I	ND	9.9	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan II	ND	9.9	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan sulfate	ND	9.9	ug/Kg	2	08/27/21	AW	SW8081B
Endrin	ND	9.9	ug/Kg	2	08/27/21	AW	SW8081B
Endrin aldehyde	ND	9.9	ug/Kg	2	08/27/21	AW	SW8081B
Endrin ketone	ND	9.9	ug/Kg	2	08/27/21	AW	SW8081B
g-BHC	ND	2.0	ug/Kg	2	08/27/21	AW	SW8081B
Heptachlor	ND	9.9	ug/Kg	2	08/27/21	AW	SW8081B
Heptachlor epoxide	ND	9.9	ug/Kg	2	08/27/21	AW	SW8081B
Methoxychlor	ND	49	ug/Kg	2	08/27/21	AW	SW8081B
Toxaphene	ND	200	ug/Kg	2	08/27/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	81		%	2	08/27/21	AW	30 - 150 %

Ver 2

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES210 (0-0.5)

Phoenix I.D.: CJ12764

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% DCBP (Confirmation)	81		%	2	08/27/21	AW	30 - 150 %
% TCMX	73		%	2	08/27/21	AW	30 - 150 %
% TCMX (Confirmation)	81		%	2	08/27/21	AW	30 - 150 %

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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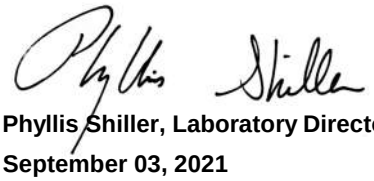

Phyllis Shiller, Laboratory Director
September 03, 2021
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

September 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/24/21	10:30
Location Code:	TIGHE-DAS	Received by:	CP	08/24/21	16:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	150439 BURR				

Laboratory Data

SDG ID: GCJ12755
Phoenix ID: CJ12765

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES BACK 1 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.67	0.93	mg/Kg	1	08/25/21	TH	SW6010D
Lead	12.0	0.46	mg/Kg	1	08/25/21	TH	SW6010D
Percent Solid	76		%		08/24/21	JS	SW846-%Solid
Extraction of ETPH	Completed				08/24/21	I/E	SW3546
Soil Extraction for Pesticide	Completed				08/25/21	R/YE	SW3546
Soil Extraction for SVOA PAH	Completed				08/24/21	I/Y/K	SW3546
Total Metals Digest	Completed				08/24/21	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	66	mg/Kg	1	08/25/21	KCA	CTETPH 8015D
Identification	ND		mg/Kg	1	08/25/21	KCA	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	63		%	1	08/25/21	KCA	50 - 150 %
% Terphenyl (surr)	77		%	1	08/25/21	KCA	50 - 150 %
Pesticides							
4,4' -DDD	ND	1.7	ug/Kg	2	08/27/21	AW	SW8081B
4,4' -DDE	ND	1.7	ug/Kg	2	08/27/21	AW	SW8081B
4,4' -DDT	ND	1.7	ug/Kg	2	08/27/21	AW	SW8081B
a-BHC	ND	1.7	ug/Kg	2	08/27/21	AW	SW8081B
Alachlor	ND	8.6	ug/Kg	2	08/27/21	AW	SW8081B
Aldrin	ND	1.7	ug/Kg	2	08/27/21	AW	SW8081B
b-BHC	ND	1.7	ug/Kg	2	08/27/21	AW	SW8081B
Chlordane	ND	43	ug/Kg	2	08/27/21	AW	SW8081B
d-BHC	ND	1.7	ug/Kg	2	08/27/21	AW	SW8081B
Dieldrin	ND	4.3	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan I	ND	8.6	ug/Kg	2	08/27/21	AW	SW8081B

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES BACK 1 (0-0.5)

Phoenix I.D.: CJ12765

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan II	ND	8.6	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan sulfate	ND	8.6	ug/Kg	2	08/27/21	AW	SW8081B
Endrin	ND	8.6	ug/Kg	2	08/27/21	AW	SW8081B
Endrin aldehyde	ND	8.6	ug/Kg	2	08/27/21	AW	SW8081B
Endrin ketone	ND	8.6	ug/Kg	2	08/27/21	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	08/27/21	AW	SW8081B
Heptachlor	ND	8.6	ug/Kg	2	08/27/21	AW	SW8081B
Heptachlor epoxide	ND	8.6	ug/Kg	2	08/27/21	AW	SW8081B
Methoxychlor	ND	43	ug/Kg	2	08/27/21	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	08/27/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	78		%	2	08/27/21	AW	30 - 150 %
% DCBP (Confirmation)	81		%	2	08/27/21	AW	30 - 150 %
% TCMX	71		%	2	08/27/21	AW	30 - 150 %
% TCMX (Confirmation)	81		%	2	08/27/21	AW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Acenaphthene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Anthracene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Chrysene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Fluoranthene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Fluorene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Naphthalene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Phenanthrene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Pyrene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	79		%	1	08/25/21	WB	30 - 130 %
% Nitrobenzene-d5	74		%	1	08/25/21	WB	30 - 130 %
% Terphenyl-d14	94		%	1	08/25/21	WB	30 - 130 %

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES BACK 1 (0-0.5)

Phoenix I.D.: CJ12765

Parameter	Result	RL/ 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 03, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/24/21	10:32
Location Code:	TIGHE-DAS	Received by:	CP	08/24/21	16:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	150439 BURR				

Laboratory Data

SDG ID: GCJ12755
Phoenix ID: CJ12766

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES BACK 2 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.57	0.98	mg/Kg	1	08/25/21	TH	SW6010D
Lead	12.1	0.49	mg/Kg	1	08/25/21	TH	SW6010D
Percent Solid	73		%		08/24/21	JS	SW846-%Solid
Extraction of ETPH	Completed				08/24/21	I/E	SW3546
Soil Extraction for Pesticide	Completed				08/25/21	R/YE	SW3546
Soil Extraction for SVOA PAH	Completed				08/24/21	I/Y/K	SW3546
Total Metals Digest	Completed				08/24/21	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	67	mg/Kg	1	08/25/21	KCA	CTETPH 8015D
Identification	ND		mg/Kg	1	08/25/21	KCA	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	60		%	1	08/25/21	KCA	50 - 150 %
% Terphenyl (surr)	75		%	1	08/25/21	KCA	50 - 150 %
Pesticides							
4,4' -DDD	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
4,4' -DDE	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
4,4' -DDT	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
a-BHC	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
Alachlor	ND	9.0	ug/Kg	2	08/27/21	AW	SW8081B
Aldrin	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
b-BHC	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
Chlordane	ND	45	ug/Kg	2	08/27/21	AW	SW8081B
d-BHC	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
Dieldrin	ND	4.5	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan I	ND	9.0	ug/Kg	2	08/27/21	AW	SW8081B

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES BACK 2 (0-0.5)

Phoenix I.D.: CJ12766

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan II	ND	9.0	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan sulfate	ND	9.0	ug/Kg	2	08/27/21	AW	SW8081B
Endrin	ND	9.0	ug/Kg	2	08/27/21	AW	SW8081B
Endrin aldehyde	ND	9.0	ug/Kg	2	08/27/21	AW	SW8081B
Endrin ketone	ND	9.0	ug/Kg	2	08/27/21	AW	SW8081B
g-BHC	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
Heptachlor	ND	9.0	ug/Kg	2	08/27/21	AW	SW8081B
Heptachlor epoxide	ND	9.0	ug/Kg	2	08/27/21	AW	SW8081B
Methoxychlor	ND	45	ug/Kg	2	08/27/21	AW	SW8081B
Toxaphene	ND	180	ug/Kg	2	08/27/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	83		%	2	08/27/21	AW	30 - 150 %
% DCBP (Confirmation)	91		%	2	08/27/21	AW	30 - 150 %
% TCMX	74		%	2	08/27/21	AW	30 - 150 %
% TCMX (Confirmation)	88		%	2	08/27/21	AW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Acenaphthene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Acenaphthylene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Anthracene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Benz(a)anthracene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(a)pyrene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(b)fluoranthene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(ghi)perylene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(k)fluoranthene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Chrysene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Fluoranthene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Fluorene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Naphthalene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Phenanthrene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
Pyrene	ND	320	ug/Kg	1	08/25/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	08/25/21	WB	30 - 130 %
% Nitrobenzene-d5	70		%	1	08/25/21	WB	30 - 130 %
% Terphenyl-d14	93		%	1	08/25/21	WB	30 - 130 %

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES BACK 2 (0-0.5)

Phoenix I.D.: CJ12766

Parameter	Result	RL/ 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 03, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

September 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/24/21	10:35
Location Code:	TIGHE-DAS	Received by:	CP	08/24/21	16:50
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	150439 BURR				

Laboratory Data

SDG ID: GCJ12755
Phoenix ID: CJ12767

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES BACK 3 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.09	0.89	mg/Kg	1	08/25/21	TH	SW6010D
Lead	13.6	0.44	mg/Kg	1	08/25/21	TH	SW6010D
Percent Solid	73		%		08/24/21	JS	SW846-%Solid
Extraction of ETPH	Completed				08/24/21	I/E	SW3546
Soil Extraction for Pesticide	Completed				08/25/21	R/YE	SW3546
Soil Extraction for SVOA PAH	Completed				08/24/21	I/Y/K	SW3546
Total Metals Digest	Completed				08/24/21	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	68	mg/Kg	1	08/25/21	KCA	CTETPH 8015D
Identification	ND		mg/Kg	1	08/25/21	KCA	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	67		%	1	08/25/21	KCA	50 - 150 %
% Terphenyl (surr)	74		%	1	08/25/21	KCA	50 - 150 %
Pesticides							
4,4' -DDD	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
4,4' -DDE	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
4,4' -DDT	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
a-BHC	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
Alachlor	ND	8.9	ug/Kg	2	08/27/21	AW	SW8081B
Aldrin	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
b-BHC	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
Chlordane	ND	45	ug/Kg	2	08/27/21	AW	SW8081B
d-BHC	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
Dieldrin	ND	4.5	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan I	ND	8.9	ug/Kg	2	08/27/21	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan II	ND	8.9	ug/Kg	2	08/27/21	AW	SW8081B
Endosulfan sulfate	ND	8.9	ug/Kg	2	08/27/21	AW	SW8081B
Endrin	ND	8.9	ug/Kg	2	08/27/21	AW	SW8081B
Endrin aldehyde	ND	8.9	ug/Kg	2	08/27/21	AW	SW8081B
Endrin ketone	ND	8.9	ug/Kg	2	08/27/21	AW	SW8081B
g-BHC	ND	1.8	ug/Kg	2	08/27/21	AW	SW8081B
Heptachlor	ND	8.9	ug/Kg	2	08/27/21	AW	SW8081B
Heptachlor epoxide	ND	8.9	ug/Kg	2	08/27/21	AW	SW8081B
Methoxychlor	ND	45	ug/Kg	2	08/27/21	AW	SW8081B
Toxaphene	ND	180	ug/Kg	2	08/27/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	89		%	2	08/27/21	AW	30 - 150 %
% DCBP (Confirmation)	90		%	2	08/27/21	AW	30 - 150 %
% TCMX	79		%	2	08/27/21	AW	30 - 150 %
% TCMX (Confirmation)	89		%	2	08/27/21	AW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Acenaphthene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Anthracene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Chrysene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Fluoranthene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Fluorene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Naphthalene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Phenanthrene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
Pyrene	ND	310	ug/Kg	1	08/25/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	83		%	1	08/25/21	WB	30 - 130 %
% Nitrobenzene-d5	76		%	1	08/25/21	WB	30 - 130 %
% Terphenyl-d14	95		%	1	08/25/21	WB	30 - 130 %

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES BACK 3 (0-0.5)

Phoenix I.D.: CJ12767

Parameter	Result	RL/ 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 03, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

QA/QC Report

September 03, 2021

QA/QC Data

SDG I.D.: GCJ12755

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 589163 (mg/kg), QC Sample No: CJ11612 (CJ12757, CJ12762, CJ12765, CJ12766, CJ12767)													
ICP Metals - Soil													
Arsenic	BRL	0.67	1.76	1.62	NC	111	113	1.8	97.1			75 - 125	35
Lead	BRL	0.33	58.6	60.3	2.90	113	116	2.6	108			75 - 125	35
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													
QA/QC Batch 590128 (mg/L), QC Sample No: CJ16586 (CJ12757)													
ICP Metals - SPLP Extraction													
Arsenic	BRL	0.004	0.004	0.005	NC	101	96.7	4.4	98.6			80 - 120	20
Lead	BRL	0.010	<0.010	<0.010	NC	103	98.2	4.8	101			80 - 120	20
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													

Environmental Laboratories, Inc.
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QA/QC Report

September 03, 2021

QA/QC Data

SDG I.D.: GCJ12755

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 589164 (mg/Kg), QC Sample No: CJ11616 (CJ12757, CJ12762, CJ12765, CJ12766, CJ12767)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum H.C. (C9-C36)	ND	50	103	113	9.3	78	81	3.8	60 - 120	30
% COD (surr)	92	%	90	94	4.3	97	84	14.4	50 - 150	30
% Terphenyl (surr)	88	%	57	51	11.1	74	65	12.9	50 - 150	30
Comment:										
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.										
QA/QC Batch 589100 (ug/Kg), QC Sample No: CJ11320 10X (CJ12756, CJ12757, CJ12758, CJ12760, CJ12761, CJ12762, CJ12763)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	170	77	99	25.0	96	94	2.1	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	77	99	25.0	99	99	0.0	40 - 140	30
PCB-1262	ND	170							40 - 140	30
PCB-1268	ND	170							40 - 140	30
% DCBP (Surrogate Rec)	106	%	83	106	24.3	103	102	1.0	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	104	%	80	103	25.1	100	98	2.0	30 - 150	30
% TCMX (Surrogate Rec)	100	%	77	101	27.0	97	96	1.0	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	101	%	79	104	27.3	101	97	4.0	30 - 150	30
QA/QC Batch 590132 (ug/L), QC Sample No: CJ13191 (CJ12755, CJ12757, CJ12759)										
Pesticides										
4,4' -DDD	ND	0.003	84	91	8.0				40 - 140	20
4,4' -DDE	ND	0.003	93	94	1.1				40 - 140	20
4,4' -DDT	ND	0.003	73	77	5.3				40 - 140	20
a-BHC	ND	0.002	84	90	6.9				40 - 140	20
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20
Aldrin	ND	0.002	83	83	0.0				40 - 140	20
b-BHC	ND	0.002	74	74	0.0				40 - 140	20
Chlordane	ND	0.050	76	78	2.6				40 - 140	20
d-BHC	ND	0.005	43	48	11.0				40 - 140	20
Dieldrin	ND	0.002	99	102	3.0				40 - 140	20
Endosulfan I	ND	0.005	90	93	3.3				40 - 140	20
Endosulfan II	ND	0.005	91	91	0.0				40 - 140	20
Endosulfan sulfate	ND	0.005	75	81	7.7				40 - 140	20
Endrin	ND	0.005	93	97	4.2				40 - 140	20
Endrin aldehyde	ND	0.005	70	77	9.5				40 - 140	20
Endrin ketone	ND	0.005	71	75	5.5				40 - 140	20

QA/QC Data

SDG I.D.: GCJ12755

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
g-BHC	ND	0.002	101	100	1.0				40 - 140	20
Heptachlor	ND	0.005	82	80	2.5				40 - 140	20
Heptachlor epoxide	ND	0.005	85	90	5.7				40 - 140	20
Methoxychlor	ND	0.005	78	85	8.6				40 - 140	20
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20
% DCBP	70	%	57	63	10.0				30 - 150	20
% DCBP (Confirmation)	107	%	86	80	7.2				30 - 150	20
% TCMX	90	%	77	83	7.5				30 - 150	20
% TCMX (Confirmation)	97	%	90	94	4.3				30 - 150	20

Comment:

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 589335 (ug/Kg), QC Sample No: CJ14101 2X (CJ12755, CJ12757, CJ12759, CJ12762, CJ12764, CJ12765, CJ12766, CJ12767)

Pesticides - Soil

4,4' -DDD	ND	1.7	91	103	12.4	74	86	15.0	40 - 140	30
4,4' -DDE	ND	1.7	92	101	9.3	79	87	9.6	40 - 140	30
4,4' -DDT	ND	1.7	91	100	9.4	83	90	8.1	40 - 140	30
a-BHC	ND	1.0	89	93	4.4	69	79	13.5	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	91	101	10.4	72	82	13.0	40 - 140	30
b-BHC	ND	1.0	115	127	9.9	101	96	5.1	40 - 140	30
Chlordane	ND	33	99	106	6.8	82	92	11.5	40 - 140	30
d-BHC	ND	3.3	97	101	4.0	78	83	6.2	40 - 140	30
Dieldrin	ND	1.0	97	107	9.8	77	83	7.5	40 - 140	30
Endosulfan I	ND	3.3	98	110	11.5	80	89	10.7	40 - 140	30
Endosulfan II	ND	3.3	103	110	6.6	83	90	8.1	40 - 140	30
Endosulfan sulfate	ND	3.3	92	101	9.3	77	87	12.2	40 - 140	30
Endrin	ND	3.3	100	110	9.5	84	92	9.1	40 - 140	30
Endrin aldehyde	ND	3.3	91	100	9.4	77	79	2.6	40 - 140	30
Endrin ketone	ND	3.3	88	99	11.8	73	84	14.0	40 - 140	30
g-BHC	ND	1.0	89	97	8.6	74	78	5.3	40 - 140	30
Heptachlor	ND	3.3	90	98	8.5	73	85	15.2	40 - 140	30
Heptachlor epoxide	ND	3.3	86	94	8.9	71	75	5.5	40 - 140	30
Methoxychlor	ND	3.3	84	93	10.2	72	81	11.8	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	105	%	100	107	6.8	84	91	8.0	30 - 150	30
% DCBP (Confirmation)	76	%	72	79	9.3	57	63	10.0	30 - 150	30
% TCMX	99	%	97	103	6.0	82	83	1.2	30 - 150	30
% TCMX (Confirmation)	84	%	84	89	5.8	71	77	8.1	30 - 150	30

QA/QC Batch 589143 (ug/kg), QC Sample No: CJ12773 (CJ12757, CJ12762, CJ12765, CJ12766, CJ12767)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	72	76	5.4	64	69	7.5	40 - 140	30
Acenaphthene	ND	230	78	83	6.2	71	72	1.4	30 - 130	30
Acenaphthylene	ND	230	72	76	5.4	63	64	1.6	40 - 140	30
Anthracene	ND	230	79	82	3.7	78	75	3.9	40 - 140	30
Benz(a)anthracene	ND	230	77	81	5.1	83	66	22.8	40 - 140	30
Benzo(a)pyrene	ND	230	76	82	7.6	77	63	20.0	40 - 140	30
Benzo(b)fluoranthene	ND	230	92	99	7.3	96	74	25.9	40 - 140	30
Benzo(ghi)perylene	ND	230	87	93	6.7	48	52	8.0	40 - 140	30
Benzo(k)fluoranthene	ND	230	90	95	5.4	81	71	13.2	40 - 140	30
Chrysene	ND	230	82	84	2.4	86	70	20.5	40 - 140	30

QA/QC Data

SDG I.D.: GCJ12755

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Dibenz(a,h)anthracene	ND	230	88	96	8.7	52	57	9.2	40 - 140	30
Fluoranthene	ND	230	82	83	1.2	93	74	22.8	40 - 140	30
Fluorene	ND	230	83	86	3.6	74	76	2.7	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	89	97	8.6	52	53	1.9	40 - 140	30
Naphthalene	ND	230	69	75	8.3	62	68	9.2	40 - 140	30
Phenanthrene	ND	230	79	83	4.9	88	69	24.2	40 - 140	30
Pyrene	ND	230	84	85	1.2	97	78	21.7	30 - 130	30
% 2-Fluorobiphenyl	83	%	81	88	8.3	71	74	4.1	30 - 130	30
% Nitrobenzene-d5	82	%	74	78	5.3	62	72	14.9	30 - 130	30
% Terphenyl-d14	93	%	88	91	3.4	79	79	0.0	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 03, 2021

Friday, September 03, 2021

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCJ12755 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CJ12755	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	13	9.2	3	3	ug/Kg
CJ12755	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	20	9.2	3	3	ug/Kg
CJ12755	$PEST_SMR	Dieldrin	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	19	4.6	7	7	ug/Kg
CJ12757	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	43	9.1	3	3	ug/Kg
CJ12757	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	27	9.1	3	3	ug/Kg
CJ12757	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	7.1	1.8	3	3	ug/Kg
CJ12757	$PEST_SMR	Dieldrin	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	12	4.5	7	7	ug/Kg
CJ12759	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	8.0	1.8	3	3	ug/Kg
CJ12759	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	4.2	1.8	3	3	ug/Kg
CJ12759	$PEST_SMR	Dieldrin	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	7.3	4.5	7	7	ug/Kg

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

Project Location: BURR ELEMENTARY SCHOOL ***Project Number:***

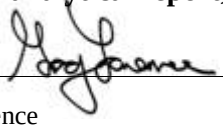
Laboratory Sample ID(s): CJ12755-CJ12767 ***Sampling Date(s):*** 8/24/2021

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	***VPH and EPH methods only:*** **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?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ 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:** Friday, September 03, 2021

Name of Laboratory Phoenix Environmental Labs, Inc.

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

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

September 03, 2021

SDG I.D.: GCJ12755

SDG Comments

Metals Analysis: CJ12757, CJ12762, CJ12765, CJ12766, CJ12767 -
The client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Barium, Beryllium, Cadmium, Chromium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

8270 Semi-volatile Organics: CJ12757, CJ12762, CJ12765, CJ12766, CJ12767 -
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-XL2 08/25/21-1 Adam Werner, Chemist 08/25/21

CJ12757 (1X), CJ12762 (1X), CJ12765 (1X), CJ12766 (1X), CJ12767 (1X)

The initial calibration (ETPH704I) 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 (825A003_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 589164 (CJ11616)

CJ12757, CJ12762, CJ12765, CJ12766, CJ12767

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 09/01/21 08:24 Cindy Pearce, Chemist 09/01/21

CJ12757

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-2 08/25/21 07:56 Tina Hall, Chemist 08/25/21

CJ12757, CJ12762, CJ12765, CJ12766, CJ12767

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.

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Certification Report

September 03, 2021

SDG I.D.: GCJ12755

ICP Metals Narration

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

QC (Batch Specific):

Batch 589163 (CJ11612)

CJ12757, CJ12762, CJ12765, CJ12766, CJ12767

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 590128 (CJ16586)

CJ12757

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%.

PCB Narration

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

Instrument:

AU-ECD29 08/25/21-1 Saadia Chudary, Chemist 08/25/21

CJ12756 (5X), CJ12757 (5X), CJ12758 (5X), CJ12760 (5X), CJ12761 (5X), CJ12762 (5X), CJ12763 (5X)

The initial calibration (PC824AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC824BI) 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 589100 (CJ11320)

CJ12756, CJ12757, CJ12758, CJ12760, CJ12761, CJ12762, CJ12763

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.

PEST Narration

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

Instrument:

AU-ECD35 09/02/21-1 Keith Aloisa, Chemist 09/02/21

CJ12755 (1X), CJ12757 (1X), CJ12759 (1X)

The initial calibration (PS0902AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0902BI) 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.

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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

September 03, 2021

SDG I.D.: GCJ12755

PEST Narration

The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.

AU-ECD4 08/26/21-1 Adam Werner, Chemist 08/26/21

CJ12755 (2X), CJ12757 (2X), CJ12759 (2X), CJ12762 (2X), CJ12764 (2X), CJ12765 (2X), CJ12766 (2X), CJ12767 (2X)

The initial calibration (PS0825AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0825BI) 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.

QC (Batch Specific):

Batch 589335 (CJ14101)

CJ12755, CJ12757, CJ12759, CJ12762, CJ12764, CJ12765, CJ12766, CJ12767

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 590132 (CJ13191)

CJ12755, CJ12757, CJ12759

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? Yes.

Instrument:

CHEM22 08/24/21-1 Matt Richard, Chemist 08/24/21

CJ12757 (1X), CJ12762 (1X), CJ12765 (1X), CJ12766 (1X), CJ12767 (1X)

Initial Calibration Evaluation (CHEM22/22_BN_0728):
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 (CHEM22/0824_05-22_BN_0728):
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):

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

NY # 11301

RCP Certification Report

September 03, 2021

SDG I.D.: GCJ12755

SVOA Narration

Batch 589143 (CJ12773)

CJ12757, CJ12762, CJ12765, CJ12766, CJ12767

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 1.7C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 1.7 °C Pg 1 of 2

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: On File

Customer: Tighe & Bond Inc
Address: 1000 Bst Ave
Shelton, CT

Project: Bull Elementary School
Report to: Brian Tillo
Invoice to: Tighe & Bond
QUOTE # DAS Rate

Project P.O: 150439 Burr

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 8/24

Client Sample Information - Identification

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = 5 (Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Pubs Six	ETPH	PAHs	Pesticides	Arsenic	Lead	MS/MSD *	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8 oz)	GL Soil container (oz)	40 ml VOA Vial [ ] As is [ ] HCL	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
12755	BES201 (0-0.5)	S	8/24	1005				X						1									
12756	BES202 (0-0.5)			1007	X																		
12757	BES203 (0-0.5)			1010	X	X	X	X	X	X													
12758	BES204 (0-0.5)			1012	X																		
12759	BES205 (0-0.5)			1015				X															
12760	BES206 (0-0.5)			1018	X																		
12761	BES207 (0-0.5)			1020	X																		
12762	BES208 (0-0.5)			1025	X	X	X	X	X	X													
12763	BES209 (0-0.5)			1025	X																		
12764	BES210 (0-0.5)			1027				X															
12765	BES Bad1 (0-0.5)			1030		X	X	X	X	X													
12766	BES Bad2 (0-0.5)	V	V	1032		X	X	X	X	X				V									

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	8/24/21	3:20
[signature]	[signature]	8/24/21	1656

Comments, Special Requirements or Regulations:
Pubs RL 0.4 mg/Kg

**MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.*

Turnaround Time:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
*** SURCHARGE APPLIES**

RI
[ ] (Residential) Direct Exposure
[ ] (Comm/Industrial) Direct Exposure
[ ] GA Leachability
[ ] GB Leachability
[ ] GA-GW Objectives
[ ] GB-GW Objectives

CT
[X] RCP Cert
[ ] GW Protection
[ ] SW Protection
[X] GA Mobility
[ ] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2 [ ] S-1 10% CALC
[ ] 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

State where samples were collected: CT

Data Format
[ ] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[X] Other Enviodata

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other

*** SURCHARGE APPLIES**

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

CHAIN OF CUSTODY RECORD

Temp 1.7 °C Pg 2 of 2

PHOENIX
Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone: See Page 1
[ ] Email:

Customer:
Address: See Page 1

Project:
Report to: See Page 1
Invoice to:
QUOTE #

Project P.O: Pge 1

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 8/24

Client Sample Information - Identification

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = S (Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs	TAHs	ETPH	Pesticides	Arsenic	Lead	MS/MSD *	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container [ ] oz	GL Soil container [ ] oz	40 ml VOA Vial [ ] As is [ ] HCL	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
12767	BES Rock 3 (0.0.5)	S	8/24	1035		X	X	X	X	X					1								

Relinquished by: [signature] Date: 8-24-21 Time: 3:20
Accepted by: [signature] Date: 8/24/21 Time: 1650

Comments, Special Requirements or Regulations:
See Page 1

**MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.*

Turnaround Time:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] (Residential) Direct Exposure
[ ] (Comm/Industrial) Direct Exposure
[ ] GA Leachability
[ ] GB Leachability
[ ] GA-GW Objectives
[ ] GB-GW Objectives

CT
[ ] RCP Cert
[ ] GW Protection
[ ] SW Protection
[ ] GA Mobility
[ ] GB Mobility
[ ] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2 [ ] S-1 10% CALC
[ ] 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

State where samples were collected: CT

Data Format
[ ] Excel
[ ] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[ ] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

PEL-126 REV. 06/20

Sarah Bell

From: Jill L. Libby <JLLibby@tigheBond.com>
Sent: Tuesday, August 31, 2021 11:30 AM
To: Sarah Bell
Cc: Brian Sirowich
Subject: Burr Add-ons

Sarah,
Could I please submit the following samples for 5-day TAT?

SPLP Lead and SPLP Arsenic

BES203
0-0.5 ft
8/24/21
CJ12757

SPLP Pesticides

BES201	**BES203**	**BES205**
0-0.5 ft	0-0.5 ft	0-0.5 ft
8/24/21	8/24/21	8/24/21
CJ12755	CJ12757	CJ12759

Thanks,
Jill

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: Twitter Facebook LinkedIn

PHOENIX
Environmental Laboratories, Inc.

Friday, December 17, 2021

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

Project ID: **FAIRFIELD ATHLETIC FIELDS BURR ELEM.**
SDG ID: **GCJ93594**
Sample ID#s: CJ93594 - CJ93598

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

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

December 17, 2021

SDG I.D.: GCJ93594

Project ID: FAIRFIELD ATHLETIC FIELDS BURR ELEM.

Client Id	Lab Id	Matrix
BES-201 (0.5-1)	CJ93594	SOIL
BES-201A (0-0.5)	CJ93595	SOIL
BES-201B (0-0.5)	CJ93596	SOIL
BES-201C (0-0.5)	CJ93597	SOIL
BES-201D (0-0.5)	CJ93598	SOIL

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

Analysis Report

December 17, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/08/21	16:20
Location Code:	TIGHE-DAS	Received by:	CP	12/09/21	11:13
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	15-0439-058				

Laboratory Data

SDG ID: GCJ93594
Phoenix ID: CJ93594

Project ID: FAIRFIELD ATHLETIC FIELDS BURR ELEM.
Client ID: BES-201 (0.5-1)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.18	0.82	mg/Kg	1	12/10/21	TH	SW6010D
Lead	13.7	0.41	mg/Kg	1	12/10/21	TH	SW6010D
Percent Solid	84		%		12/09/21	Q	SW846-%Solid
Soil Extraction for Pesticide	Completed				12/09/21	O/Y	SW3545A
Extraction of ETPH	Completed				12/09/21	B/L	SW3546
Soil Extraction for SVOA PAH	Completed				12/09/21	B/Y	SW3546
Extraction for PCB	Completed				12/09/21	X/JS/Q	SW3540C
Total Metals Digest	Completed				12/09/21	P/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	12/10/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	12/10/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	87		%	1	12/10/21	JRB	50 - 150 %
% Terphenyl (surr)	105		%	1	12/10/21	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	390	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	12/10/21	SC	SW8082A
QA/QC Surrogates							

Project ID: FAIRFIELD ATHLETIC FIELDS BURR ELEM. Phoenix I.D.: CJ93594

Client ID: BES-201 (0.5-1)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% DCBP	95		%	10	12/10/21	SC	30 - 150 %
% DCBP (Confirmation)	91		%	10	12/10/21	SC	30 - 150 %
% TCMX	80		%	10	12/10/21	SC	30 - 150 %
% TCMX (Confirmation)	80		%	10	12/10/21	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.6	ug/Kg	2	12/10/21	AW	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	12/10/21	AW	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	12/10/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	12/10/21	AW	SW8081B
Alachlor	ND	7.9	ug/Kg	2	12/10/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	12/10/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	12/10/21	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	12/10/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	12/10/21	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	12/10/21	AW	SW8081B
Endosulfan I	ND	7.9	ug/Kg	2	12/10/21	AW	SW8081B
Endosulfan II	ND	7.9	ug/Kg	2	12/10/21	AW	SW8081B
Endosulfan sulfate	ND	7.9	ug/Kg	2	12/10/21	AW	SW8081B
Endrin	ND	7.9	ug/Kg	2	12/10/21	AW	SW8081B
Endrin aldehyde	ND	7.9	ug/Kg	2	12/10/21	AW	SW8081B
Endrin ketone	ND	7.9	ug/Kg	2	12/10/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	12/10/21	AW	SW8081B
Heptachlor	ND	7.9	ug/Kg	2	12/10/21	AW	SW8081B
Heptachlor epoxide	ND	7.9	ug/Kg	2	12/10/21	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	12/10/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	12/10/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	68		%	2	12/10/21	AW	30 - 150 %
% DCBP (Confirmation)	50		%	2	12/10/21	AW	30 - 150 %
% TCMX	64		%	2	12/10/21	AW	30 - 150 %
% TCMX (Confirmation)	71		%	2	12/10/21	AW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	280	ug/Kg	1	12/09/21	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	12/09/21	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	12/09/21	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	12/09/21	WB	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	12/09/21	WB	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	12/09/21	WB	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	12/09/21	WB	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	12/09/21	WB	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	12/09/21	WB	SW8270D
Chrysene	ND	280	ug/Kg	1	12/09/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	12/09/21	WB	SW8270D
Fluoranthene	ND	280	ug/Kg	1	12/09/21	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	12/09/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	12/09/21	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	12/09/21	WB	SW8270D
Phenanthrene	ND	280	ug/Kg	1	12/09/21	WB	SW8270D

Project ID: FAIRFIELD ATHLETIC FIELDS BURR ELEM. Phoenix I.D.: CJ93594

Client ID: BES-201 (0.5-1)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Pyrene	ND	280	ug/Kg	1	12/09/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	75		%	1	12/09/21	WB	30 - 130 %
% Nitrobenzene-d5	72		%	1	12/09/21	WB	30 - 130 %
% Terphenyl-d14	76		%	1	12/09/21	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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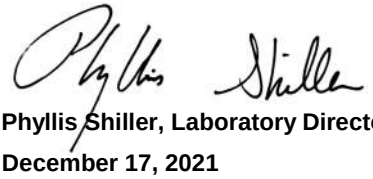

Phyllis Shiller, Laboratory Director

December 17, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

December 17, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/08/21	16:21
Location Code:	TIGHE-DAS	Received by:	CP	12/09/21	11:13
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	15-0439-058				

Laboratory Data

SDG ID: GCJ93594
Phoenix ID: CJ93595

Project ID: FAIRFIELD ATHLETIC FIELDS BURR ELEM.
Client ID: BES-201A (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.26	0.87	mg/Kg	1	12/10/21	TH	SW6010D
Lead	13.1	0.43	mg/Kg	1	12/10/21	TH	SW6010D
Percent Solid	77		%		12/09/21	Q	SW846-%Solid
Soil Extraction for Pesticide	Completed				12/09/21	O/L	SW3545A
Extraction of ETPH	Completed				12/09/21	B/L	SW3546
Soil Extraction for SVOA PAH	Completed				12/09/21	B/Y	SW3546
Extraction for PCB	Completed				12/09/21	X/JS/Q	SW3540C
Total Metals Digest	Completed				12/09/21	P/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	64	mg/Kg	1	12/10/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	12/10/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	85		%	1	12/10/21	JRB	50 - 150 %
% Terphenyl (surr)	101		%	1	12/10/21	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	430	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1221	ND	430	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1232	ND	430	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1242	ND	430	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1248	ND	430	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1254	ND	430	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1260	ND	430	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1262	ND	430	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1268	ND	430	ug/Kg	10	12/10/21	SC	SW8082A
QA/QC Surrogates							

Project ID: FAIRFIELD ATHLETIC FIELDS BURR ELEM. Phoenix I.D.: CJ93595

Client ID: BES-201A (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% DCBP	98		%	10	12/10/21	SC	30 - 150 %
% DCBP (Confirmation)	93		%	10	12/10/21	SC	30 - 150 %
% TCMX	82		%	10	12/10/21	SC	30 - 150 %
% TCMX (Confirmation)	84		%	10	12/10/21	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.7	ug/Kg	2	12/11/21	AW	SW8081B
4,4' -DDE	ND	1.7	ug/Kg	2	12/11/21	AW	SW8081B
4,4' -DDT	ND	1.7	ug/Kg	2	12/11/21	AW	SW8081B
a-BHC	ND	1.7	ug/Kg	2	12/11/21	AW	SW8081B
Alachlor	ND	8.5	ug/Kg	2	12/11/21	AW	SW8081B
Aldrin	ND	1.7	ug/Kg	2	12/11/21	AW	SW8081B
b-BHC	ND	1.7	ug/Kg	2	12/11/21	AW	SW8081B
Chlordane	ND	43	ug/Kg	2	12/11/21	AW	SW8081B
d-BHC	ND	1.7	ug/Kg	2	12/11/21	AW	SW8081B
Dieldrin	ND	4.3	ug/Kg	2	12/11/21	AW	SW8081B
Endosulfan I	ND	8.5	ug/Kg	2	12/11/21	AW	SW8081B
Endosulfan II	ND	8.5	ug/Kg	2	12/11/21	AW	SW8081B
Endosulfan sulfate	ND	8.5	ug/Kg	2	12/11/21	AW	SW8081B
Endrin	ND	8.5	ug/Kg	2	12/11/21	AW	SW8081B
Endrin aldehyde	ND	8.5	ug/Kg	2	12/11/21	AW	SW8081B
Endrin ketone	ND	8.5	ug/Kg	2	12/11/21	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	12/11/21	AW	SW8081B
Heptachlor	ND	8.5	ug/Kg	2	12/11/21	AW	SW8081B
Heptachlor epoxide	ND	8.5	ug/Kg	2	12/11/21	AW	SW8081B
Methoxychlor	ND	43	ug/Kg	2	12/11/21	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	12/11/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	127		%	2	12/11/21	AW	30 - 150 %
% DCBP (Confirmation)	78		%	2	12/11/21	AW	30 - 150 %
% TCMX	65		%	2	12/11/21	AW	30 - 150 %
% TCMX (Confirmation)	85		%	2	12/11/21	AW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	300	ug/Kg	1	12/10/21	WB	SW8270D
Acenaphthene	ND	300	ug/Kg	1	12/10/21	WB	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	12/10/21	WB	SW8270D
Anthracene	ND	300	ug/Kg	1	12/10/21	WB	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	12/10/21	WB	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	12/10/21	WB	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	12/10/21	WB	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	12/10/21	WB	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	12/10/21	WB	SW8270D
Chrysene	ND	300	ug/Kg	1	12/10/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	12/10/21	WB	SW8270D
Fluoranthene	ND	300	ug/Kg	1	12/10/21	WB	SW8270D
Fluorene	ND	300	ug/Kg	1	12/10/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	12/10/21	WB	SW8270D
Naphthalene	ND	300	ug/Kg	1	12/10/21	WB	SW8270D
Phenanthrene	ND	300	ug/Kg	1	12/10/21	WB	SW8270D

Project ID: FAIRFIELD ATHLETIC FIELDS BURR ELEM. Phoenix I.D.: CJ93595

Client ID: BES-201A (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Pyrene	ND	300	ug/Kg	1	12/10/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	67		%	1	12/10/21	WB	30 - 130 %
% Nitrobenzene-d5	65		%	1	12/10/21	WB	30 - 130 %
% Terphenyl-d14	66		%	1	12/10/21	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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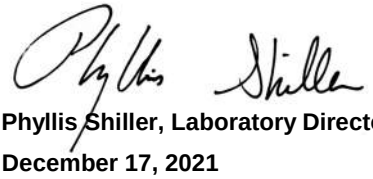

Phyllis Shiller, Laboratory Director

December 17, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

December 17, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/08/21	16:22
Location Code:	TIGHE-DAS	Received by:	CP	12/09/21	11:13
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	15-0439-058				

Laboratory Data

SDG ID: GCJ93594
Phoenix ID: CJ93596

Project ID: FAIRFIELD ATHLETIC FIELDS BURR ELEM.
Client ID: BES-201B (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.74	0.82	mg/Kg	1	12/10/21	TH	SW6010D
Lead	11.9	0.41	mg/Kg	1	12/10/21	TH	SW6010D
Percent Solid	82		%		12/09/21	Q	SW846-%Solid
Soil Extraction for Pesticide	Completed				12/09/21	O/L	SW3545A
Extraction of ETPH	Completed				12/09/21	B/L	SW3546
Soil Extraction for SVOA PAH	Completed				12/09/21	B/Y	SW3546
Extraction for PCB	Completed				12/09/21	X/JS/Q	SW3540C
Total Metals Digest	Completed				12/09/21	P/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	12/10/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	12/10/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	86		%	1	12/10/21	JRB	50 - 150 %
% Terphenyl (surr)	100		%	1	12/10/21	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
QA/QC Surrogates							

Project ID: FAIRFIELD ATHLETIC FIELDS BURR ELEM. Phoenix I.D.: CJ93596

Client ID: BES-201B (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% DCBP	104		%	10	12/10/21	SC	30 - 150 %
% DCBP (Confirmation)	99		%	10	12/10/21	SC	30 - 150 %
% TCMX	74		%	10	12/10/21	SC	30 - 150 %
% TCMX (Confirmation)	75		%	10	12/10/21	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
Alachlor	ND	8.0	ug/Kg	2	12/11/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
Chlordane	ND	40	ug/Kg	2	12/11/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	12/11/21	AW	SW8081B
Endosulfan I	ND	8.0	ug/Kg	2	12/11/21	AW	SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	12/11/21	AW	SW8081B
Endosulfan sulfate	ND	8.0	ug/Kg	2	12/11/21	AW	SW8081B
Endrin	ND	8.0	ug/Kg	2	12/11/21	AW	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	12/11/21	AW	SW8081B
Endrin ketone	ND	8.0	ug/Kg	2	12/11/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
Heptachlor	ND	8.0	ug/Kg	2	12/11/21	AW	SW8081B
Heptachlor epoxide	ND	8.0	ug/Kg	2	12/11/21	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	12/11/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	12/11/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	60		%	2	12/11/21	AW	30 - 150 %
% DCBP (Confirmation)	41		%	2	12/11/21	AW	30 - 150 %
% TCMX	57		%	2	12/11/21	AW	30 - 150 %
% TCMX (Confirmation)	56		%	2	12/11/21	AW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Chrysene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Fluoranthene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Phenanthrene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D

Project ID: FAIRFIELD ATHLETIC FIELDS BURR ELEM. Phoenix I.D.: CJ93596

Client ID: BES-201B (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Pyrene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	78		%	1	12/10/21	WB	30 - 130 %
% Nitrobenzene-d5	76		%	1	12/10/21	WB	30 - 130 %
% Terphenyl-d14	82		%	1	12/10/21	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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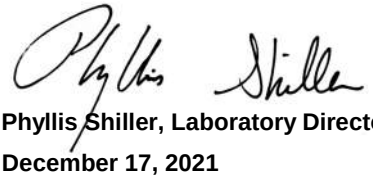


Phyllis Shiller, Laboratory Director

December 17, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

December 17, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/08/21	16:23
Location Code:	TIGHE-DAS	Received by:	CP	12/09/21	11:13
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	15-0439-058				

Laboratory Data

SDG ID: GCJ93594
Phoenix ID: CJ93597

Project ID: FAIRFIELD ATHLETIC FIELDS BURR ELEM.
Client ID: BES-201C (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.85	0.84	mg/Kg	1	12/10/21	TH	SW6010D
Lead	12.7	0.42	mg/Kg	1	12/10/21	TH	SW6010D
Percent Solid	83		%		12/09/21	Q	SW846-%Solid
Soil Extraction for Pesticide	Completed				12/09/21	O/L	SW3545A
Extraction of ETPH	Completed				12/09/21	B/L	SW3546
Soil Extraction for SVOA PAH	Completed				12/09/21	B/Y	SW3546
Extraction for PCB	Completed				12/09/21	X/JS/Q	SW3540C
Total Metals Digest	Completed				12/09/21	P/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	12/10/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	12/10/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	91		%	1	12/10/21	JRB	50 - 150 %
% Terphenyl (surr)	106		%	1	12/10/21	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
QA/QC Surrogates							

Project ID: FAIRFIELD ATHLETIC FIELDS BURR ELEM. Phoenix I.D.: CJ93597

Client ID: BES-201C (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% DCBP	94		%	10	12/10/21	SC	30 - 150 %
% DCBP (Confirmation)	90		%	10	12/10/21	SC	30 - 150 %
% TCMX	38		%	10	12/10/21	SC	30 - 150 %
% TCMX (Confirmation)	40		%	10	12/10/21	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
Alachlor	ND	8.0	ug/Kg	2	12/11/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
Chlordane	ND	40	ug/Kg	2	12/11/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	12/11/21	AW	SW8081B
Endosulfan I	ND	8.0	ug/Kg	2	12/11/21	AW	SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	12/11/21	AW	SW8081B
Endosulfan sulfate	ND	8.0	ug/Kg	2	12/11/21	AW	SW8081B
Endrin	ND	8.0	ug/Kg	2	12/11/21	AW	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	12/11/21	AW	SW8081B
Endrin ketone	ND	8.0	ug/Kg	2	12/11/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
Heptachlor	ND	8.0	ug/Kg	2	12/11/21	AW	SW8081B
Heptachlor epoxide	ND	8.0	ug/Kg	2	12/11/21	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	12/11/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	12/11/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	68		%	2	12/11/21	AW	30 - 150 %
% DCBP (Confirmation)	49		%	2	12/11/21	AW	30 - 150 %
% TCMX	64		%	2	12/11/21	AW	30 - 150 %
% TCMX (Confirmation)	68		%	2	12/11/21	AW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	12/10/21	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	12/10/21	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	12/10/21	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	12/10/21	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	12/10/21	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	12/10/21	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	12/10/21	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	12/10/21	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	12/10/21	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	12/10/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	12/10/21	WB	SW8270D
Fluoranthene	ND	270	ug/Kg	1	12/10/21	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	12/10/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	12/10/21	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	12/10/21	WB	SW8270D
Phenanthrene	ND	270	ug/Kg	1	12/10/21	WB	SW8270D

Project ID: FAIRFIELD ATHLETIC FIELDS BURR ELEM. Phoenix I.D.: CJ93597

Client ID: BES-201C (0-0.5)

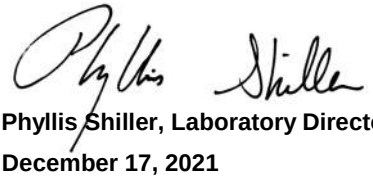
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Pyrene	ND	270	ug/Kg	1	12/10/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	83		%	1	12/10/21	WB	30 - 130 %
% Nitrobenzene-d5	82		%	1	12/10/21	WB	30 - 130 %
% Terphenyl-d14	81		%	1	12/10/21	WB	30 - 130 %

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

December 17, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

December 17, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/08/21	16:24
Location Code:	TIGHE-DAS	Received by:	CP	12/09/21	11:13
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	15-0439-058				

Laboratory Data

SDG ID: GCJ93594
Phoenix ID: CJ93598

Project ID: FAIRFIELD ATHLETIC FIELDS BURR ELEM.
Client ID: BES-201D (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.71	0.76	mg/Kg	1	12/10/21	TH	SW6010D
Lead	22.4	0.38	mg/Kg	1	12/10/21	TH	SW6010D
Percent Solid	82		%		12/09/21	Q	SW846-%Solid
Soil Extraction for Pesticide	Completed				12/09/21	O/L	SW3545A
Extraction of ETPH	Completed				12/09/21	B/L	SW3546
Soil Extraction for SVOA PAH	Completed				12/09/21	B/Y	SW3546
Extraction for PCB	Completed				12/09/21	X/JS/Q	SW3540C
SPLP Extraction for Organics	Completed				12/15/21	K	SW1312
SPLP Semivolatiles (SIM) Ext.	Completed				12/16/21	JS/JS	SW3510C/SW3520C
SPLP Pesticides Ext.	Completed				12/16/21	JS/JS	SW3510C
Total Metals Digest	Completed				12/09/21	P/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	300	mg/Kg	5	12/10/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	12/10/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	69		%	5	12/10/21	JRB	50 - 150 %
% Terphenyl (surr)	86		%	5	12/10/21	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	12/10/21	SC	SW8082A

Project ID: FAIRFIELD ATHLETIC FIELDS BURR ELEM. Phoenix I.D.: CJ93598

Client ID: BES-201D (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1262	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	12/10/21	SC	SW8082A
QA/QC Surrogates							
% DCBP	94		%	10	12/10/21	SC	30 - 150 %
% DCBP (Confirmation)	88		%	10	12/10/21	SC	30 - 150 %
% TCMX	79		%	10	12/10/21	SC	30 - 150 %
% TCMX (Confirmation)	80		%	10	12/10/21	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
4,4' -DDE	9.5	8.1	ug/Kg	2	12/11/21	AW	SW8081B
4,4' -DDT	10	8.1	ug/Kg	2	12/11/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
Alachlor	ND	8.1	ug/Kg	2	12/11/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
Chlordane	ND	40	ug/Kg	2	12/11/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	12/11/21	AW	SW8081B
Endosulfan I	ND	8.1	ug/Kg	2	12/11/21	AW	SW8081B
Endosulfan II	ND	8.1	ug/Kg	2	12/11/21	AW	SW8081B
Endosulfan sulfate	ND	8.1	ug/Kg	2	12/11/21	AW	SW8081B
Endrin	ND	8.1	ug/Kg	2	12/11/21	AW	SW8081B
Endrin aldehyde	ND	8.1	ug/Kg	2	12/11/21	AW	SW8081B
Endrin ketone	ND	8.1	ug/Kg	2	12/11/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	12/11/21	AW	SW8081B
Heptachlor	ND	8.1	ug/Kg	2	12/11/21	AW	SW8081B
Heptachlor epoxide	ND	8.1	ug/Kg	2	12/11/21	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	12/11/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	12/11/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	54		%	2	12/11/21	AW	30 - 150 %
% DCBP (Confirmation)	39		%	2	12/11/21	AW	30 - 150 %
% TCMX	52		%	2	12/11/21	AW	30 - 150 %
% TCMX (Confirmation)	58		%	2	12/11/21	AW	30 - 150 %
SPLP Pesticides							
4,4' -DDD	ND	0.005	ug/L	1	12/16/21	AW	SW8081B
4,4' -DDE	ND	0.005	ug/L	1	12/16/21	AW	SW8081B
4,4' -DDT	ND	0.005	ug/L	1	12/16/21	AW	SW8081B
a-BHC	ND	0.005	ug/L	1	12/16/21	AW	SW8081B
Alachlor	ND	0.010	ug/L	1	12/16/21	AW	SW8081B
Aldrin	ND	0.003	ug/L	1	12/16/21	AW	SW8081B
b-BHC	ND	0.005	ug/L	1	12/16/21	AW	SW8081B
Chlordane	ND	0.050	ug/L	1	12/16/21	AW	SW8081B
d-BHC	ND	0.005	ug/L	1	12/16/21	AW	SW8081B
Dieldrin	ND	0.010	ug/L	1	12/16/21	AW	SW8081B
Endosulfan I	ND	0.005	ug/L	1	12/16/21	AW	SW8081B
Endosulfan II	ND	0.005	ug/L	1	12/16/21	AW	SW8081B
Endosulfan sulfate	ND	0.005	ug/L	1	12/16/21	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin	ND	0.005	ug/L	1	12/16/21	AW	SW8081B
Endrin aldehyde	ND	0.005	ug/L	1	12/16/21	AW	SW8081B
Endrin Ketone	ND	0.005	ug/L	1	12/16/21	AW	SW8081B
g-BHC	ND	0.005	ug/L	1	12/16/21	AW	SW8081B
Heptachlor	ND	0.005	ug/L	1	12/16/21	AW	SW8081B
Heptachlor epoxide	ND	0.005	ug/L	1	12/16/21	AW	SW8081B
Methoxychlor	ND	0.005	ug/L	1	12/16/21	AW	SW8081B
Toxaphene	ND	0.20	ug/L	1	12/16/21	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	48		%	1	12/16/21	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	58		%	1	12/16/21	AW	30 - 150 %
%TCMX (Surrogate Rec)	85		%	1	12/16/21	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	82		%	1	12/16/21	AW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Benz(a)anthracene	830	280	ug/Kg	1	12/10/21	WB	SW8270D
Benzo(a)pyrene	1000	280	ug/Kg	1	12/10/21	WB	SW8270D
Benzo(b)fluoranthene	1100	280	ug/Kg	1	12/10/21	WB	SW8270D
Benzo(ghi)perylene	770	280	ug/Kg	1	12/10/21	WB	SW8270D
Benzo(k)fluoranthene	880	280	ug/Kg	1	12/10/21	WB	SW8270D
Chrysene	1100	280	ug/Kg	1	12/10/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Fluoranthene	1600	280	ug/Kg	1	12/10/21	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	820	280	ug/Kg	1	12/10/21	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	12/10/21	WB	SW8270D
Phenanthrene	780	280	ug/Kg	1	12/10/21	WB	SW8270D
Pyrene	1500	280	ug/Kg	1	12/10/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	75		%	1	12/10/21	WB	30 - 130 %
% Nitrobenzene-d5	77		%	1	12/10/21	WB	30 - 130 %
% Terphenyl-d14	70		%	1	12/10/21	WB	30 - 130 %
SPLP Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.50	ug/L	1	12/16/21	WB	SW8270D (SIM)
Acenaphthene	ND	0.50	ug/L	1	12/16/21	WB	SW8270D (SIM)
Acenaphthylene	ND	0.30	ug/L	1	12/16/21	WB	SW8270D (SIM)
Anthracene	ND	0.50	ug/L	1	12/16/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	12/16/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	12/16/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	12/16/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	ug/L	1	12/16/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.30	ug/L	1	12/16/21	WB	SW8270D (SIM)
Chrysene	ND	0.50	ug/L	1	12/16/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	12/16/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.50	ug/L	1	12/16/21	WB	SW8270D (SIM)

Project ID: FAIRFIELD ATHLETIC FIELDS BURR ELEM. Phoenix I.D.: CJ93598

Client ID: BES-201D (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Fluorene	ND	0.50	ug/L	1	12/16/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	12/16/21	WB	SW8270D (SIM)
Naphthalene	ND	0.50	ug/L	1	12/16/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	12/16/21	WB	SW8270D (SIM)
Pyrene	ND	0.50	ug/L	1	12/16/21	WB	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	12/16/21	WB	30 - 130 %
% Nitrobenzene-d5	74		%	1	12/16/21	WB	30 - 130 %
% Terphenyl-d14	83		%	1	12/16/21	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.

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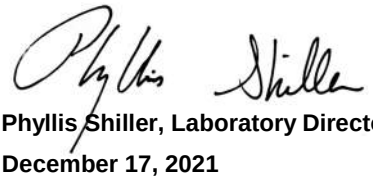

Phyllis Shiller, Laboratory Director

December 17, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

QA/QC Report

December 17, 2021

QA/QC Data

SDG I.D.: GCJ93594

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 603830 (mg/kg), QC Sample No: CJ93594 (CJ93594, CJ93595, CJ93596, CJ93597, CJ93598)													
ICP Metals - Soil													
Arsenic	BRL	0.67	4.18	3.83	NC	90.2	88.4	2.0	83.3			75 - 125	35
Lead	BRL	0.33	13.7	13.0	5.20	92.1	89.7	2.6	89.7			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

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QA/QC Report

December 17, 2021

QA/QC Data

SDG I.D.: GCJ93594

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 603826 (mg/Kg), QC Sample No: CJ93594 (CJ93594, CJ93595, CJ93596, CJ93597, CJ93598)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	96	101	5.1	97	103	6.0	60 - 120	30	
% COD (surr)	64	%	78	87	10.9	91	94	3.2	50 - 150	30	
% Terphenyl (surr)	103	%	100	106	5.8	101	107	5.8	50 - 150	30	
Comment:											
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.											
QA/QC Batch 603835 (ug/Kg), QC Sample No: CJ93594 10X (CJ93594, CJ93595, CJ93596, CJ93597, CJ93598)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	170	74	86	15.0	76	77	1.3	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	84	93	10.2	91	90	1.1	40 - 140	30	
PCB-1262	ND	170							40 - 140	30	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	98	%	86	95	9.9	88	86	2.3	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	81	%	76	92	19.0	95	92	3.2	30 - 150	30	
% TCMX (Surrogate Rec)	89	%	75	83	10.1	67	72	7.2	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	83	%	75	87	14.8	69	73	5.6	30 - 150	30	
QA/QC Batch 604823 (ug/L), QC Sample No: CJ93472 (CJ93598)											
Pesticides											
4,4' -DDD	ND	0.003	102	111	8.5				40 - 140	20	
4,4' -DDE	ND	0.003	105	106	0.9				40 - 140	20	
4,4' -DDT	ND	0.003	94	90	4.3				40 - 140	20	
a-BHC	ND	0.002	94	113	18.4				40 - 140	20	
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20	
Aldrin	ND	0.002	94	99	5.2				40 - 140	20	
b-BHC	ND	0.002	115	133	14.5				40 - 140	20	
Chlordane	ND	0.050	106	97	8.9				40 - 140	20	
d-BHC	ND	0.005	42	41	2.4				40 - 140	20	
Dieldrin	ND	0.002	99	110	10.5				40 - 140	20	
Endosulfan I	ND	0.005	108	87	21.5				40 - 140	20	r
Endosulfan II	ND	0.005	114	131	13.9				40 - 140	20	
Endosulfan sulfate	ND	0.005	97	98	1.0				40 - 140	20	
Endrin	ND	0.005	109	114	4.5				40 - 140	20	
Endrin aldehyde	ND	0.005	114	90	23.5				40 - 140	20	r
Endrin ketone	ND	0.005	109	96	12.7				40 - 140	20	
g-BHC	ND	0.002	98	109	10.6				40 - 140	20	

QA/QC Data

SDG I.D.: GCJ93594

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Heptachlor	ND	0.005	99	106	6.8				40 - 140	20
Heptachlor epoxide	ND	0.005	97	93	4.2				40 - 140	20
Methoxychlor	ND	0.005	108	94	13.9				40 - 140	20
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20
% DCBP	66	%	85	74	13.8				30 - 150	20
% DCBP (Confirmation)	76	%	69	83	18.4				30 - 150	20
% TCMX	76	%	90	93	3.3				30 - 150	20
% TCMX (Confirmation)	67	%	88	87	1.1				30 - 150	20

QA/QC Batch 603851 (ug/Kg), QC Sample No: CJ93594 2X (CJ93594, CJ93595, CJ93596, CJ93597, CJ93598)

Pesticides - Soil

4,4' -DDD	ND	1.7	69	63	9.1				40 - 140	30
4,4' -DDE	ND	1.7	67	61	9.4				40 - 140	30
4,4' -DDT	ND	1.7	71	65	8.8				40 - 140	30
a-BHC	ND	1.0	80	71	11.9				40 - 140	30
Alachlor	ND	3.3	NA	NA	NC				40 - 140	30
Aldrin	ND	1.0	75	67	11.3				40 - 140	30
b-BHC	ND	1.0	85	77	9.9				40 - 140	30
Chlordane	ND	33	76	69	9.7				40 - 140	30
d-BHC	ND	3.3	65	58	11.4				40 - 140	30
Dieldrin	ND	1.0	75	67	11.3				40 - 140	30
Endosulfan I	ND	3.3	78	67	15.2				40 - 140	30
Endosulfan II	ND	3.3	80	73	9.2				40 - 140	30
Endosulfan sulfate	ND	3.3	77	72	6.7				40 - 140	30
Endrin	ND	3.3	62	55	12.0				40 - 140	30
Endrin aldehyde	ND	3.3	55	50	9.5				40 - 140	30
Endrin ketone	ND	3.3	71	67	5.8				40 - 140	30
g-BHC	ND	1.0	79	70	12.1				40 - 140	30
Heptachlor	ND	3.3	74	67	9.9				40 - 140	30
Heptachlor epoxide	ND	3.3	74	66	11.4				40 - 140	30
Methoxychlor	ND	3.3	61	58	5.0				40 - 140	30
Toxaphene	ND	130	NA	NA	NC				40 - 140	30
% DCBP	81	%	82	79	3.7				30 - 150	30
% DCBP (Confirmation)	65	%	66	62	6.3				30 - 150	30
% TCMX	84	%	81	77	5.1				30 - 150	30
% TCMX (Confirmation)	94	%	92	85	7.9				30 - 150	30

Comment:

This batch consists of BLK, LCS and LCSD

QA/QC Batch 603821 (ug/kg), QC Sample No: CJ93594 (CJ93594, CJ93595, CJ93596, CJ93597, CJ93598)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	78	80	2.5	83	84	1.2	40 - 140	30
Acenaphthene	ND	230	83	86	3.6	91	89	2.2	30 - 130	30
Acenaphthylene	ND	230	77	79	2.6	83	81	2.4	40 - 140	30
Anthracene	ND	230	83	92	10.3	87	86	1.2	40 - 140	30
Benz(a)anthracene	ND	230	90	100	10.5	92	91	1.1	40 - 140	30
Benzo(a)pyrene	ND	230	84	91	8.0	85	81	4.8	40 - 140	30
Benzo(b)fluoranthene	ND	230	86	96	11.0	102	98	4.0	40 - 140	30
Benzo(ghi)perylene	ND	230	88	93	5.5	87	84	3.5	40 - 140	30
Benzo(k)fluoranthene	ND	230	81	88	8.3	97	94	3.1	40 - 140	30
Chrysene	ND	230	87	95	8.8	91	91	0.0	40 - 140	30
Dibenz(a,h)anthracene	ND	230	89	97	8.6	93	92	1.1	40 - 140	30
Fluoranthene	ND	230	73	80	9.2	73	74	1.4	40 - 140	30

QA/QC Data

SDG I.D.: GCJ93594

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Fluorene	ND	230	87	92	5.6	95	95	0.0	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	98	102	4.0	92	89	3.3	40 - 140	30
Naphthalene	ND	230	78	81	3.8	85	84	1.2	40 - 140	30
Phenanthrene	ND	230	83	93	11.4	91	90	1.1	40 - 140	30
Pyrene	ND	230	72	82	13.0	75	76	1.3	30 - 130	30
% 2-Fluorobiphenyl	75	%	76	78	2.6	85	82	3.6	30 - 130	30
% Nitrobenzene-d5	73	%	69	75	8.3	78	79	1.3	30 - 130	30
% Terphenyl-d14	74	%	72	82	13.0	73	74	1.4	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%)

QA/QC Batch 604822 (ug/L), QC Sample No: CJ93598 (CJ93598)

Semivolatiles by SIM, PAH - SPLP

2-Methylnaphthalene	ND	0.50	56	54	3.6				30 - 130	20
Acenaphthene	ND	0.50	72	70	2.8				30 - 130	20
Acenaphthylene	ND	0.30	67	65	3.0				30 - 130	20
Anthracene	ND	0.50	75	71	5.5				30 - 130	20
Benz(a)anthracene	ND	0.05	84	79	6.1				30 - 130	20
Benzo(a)pyrene	ND	0.20	80	76	5.1				30 - 130	20
Benzo(b)fluoranthene	ND	0.07	82	75	8.9				30 - 130	20
Benzo(ghi)perylene	ND	0.48	74	71	4.1				30 - 130	20
Benzo(k)fluoranthene	ND	0.30	71	71	0.0				30 - 130	20
Chrysene	ND	0.50	75	70	6.9				30 - 130	20
Dibenz(a,h)anthracene	ND	0.10	82	77	6.3				30 - 130	20
Fluoranthene	ND	0.50	77	73	5.3				30 - 130	20
Fluorene	ND	0.50	75	73	2.7				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.10	82	77	6.3				30 - 130	20
Naphthalene	ND	0.50	59	57	3.4				30 - 130	20
Phenanthrene	ND	0.06	70	67	4.4				30 - 130	20
Pyrene	ND	0.50	79	75	5.2				30 - 130	20
% 2-Fluorobiphenyl	59	%	65	61	6.3				30 - 130	20
% Nitrobenzene-d5	63	%	75	71	5.5				30 - 130	20
% Terphenyl-d14	70	%	81	74	9.0				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%)

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

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 17, 2021

Friday, December 17, 2021

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCJ93594 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CJ93598	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1100	280	1000	1000	ug/Kg
CJ93598	$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	1100	280	1000	1000	ug/Kg
CJ93598	$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1100	280	1000	1000	ug/Kg
CJ93598	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	10	8.1	3	3	ug/Kg
CJ93598	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	9.5	8.1	3	3	ug/Kg

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

Project Location: FAIRFIELD ATHLETIC FIELDS BURR ***Project Number:***

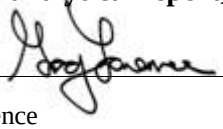
Laboratory Sample ID(s): CJ93594-CJ93598 ***Sampling Date(s):*** 12/8/2021

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	***VPH and EPH methods only:*** **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: PEST Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ 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:** Friday, December 17, 2021

Name of Laboratory Phoenix Environmental Labs, Inc.

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

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

December 17, 2021

SDG I.D.: GCJ93594

SDG Comments

Metals Analysis:
The client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Barium, Beryllium, Cadmium, Chromium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

8270 Semi-volatile Organics:
Only the PAH constituents are reported as requested on the chain-of-custody. In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM).

ETPH Narration

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

Instrument:

AU-FID11 12/10/21-1 Jeff Bucko, Chemist 12/10/21

CJ93598 (5X)

The initial calibration (ETPHO11I) 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 (D10A003_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-FID21 12/09/21-1 Jeff Bucko, Chemist 12/09/21

CJ93594 (1X), CJ93595 (1X), CJ93596 (1X), CJ93597 (1X)

The initial calibration (ET_1027I) 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 (D09A004_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 (Site Specific):

Batch 603826 (CJ93594)

CJ93594, CJ93595, CJ93596, CJ93597, CJ93598

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.
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: 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-2 12/09/21 09:00 Tina Hall, Chemist 12/09/21

CJ93594, CJ93595, CJ93596, CJ93597, CJ93598

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.

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NY # 11301

Certification Report

December 17, 2021

SDG I.D.: GCJ93594

ICP Metals Narration

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

QC (Site Specific):

Batch 603830 (CJ93594)

CJ93594, CJ93595, CJ93596, CJ93597, CJ93598

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-ECD1 12/10/21-1 Saadia Chudary, Chemist 12/10/21

CJ93594 (10X), CJ93595 (10X), CJ93596 (10X), CJ93597 (10X), CJ93598 (10X)

The initial calibration (PC1201AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1201BI) 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 603835 (CJ93594)

CJ93594, CJ93595, CJ93596, CJ93597, CJ93598

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? No.

QC Batch 604823 (Samples: CJ93598): -----

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s). No significant variability is suspected. (Endosulfan I, Endrin aldehyde)

Instrument:

AU-ECD35 12/16/21-1 Adam Werner, Chemist 12/16/21

CJ93598 (1X)

The initial calibration (PS1206AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS1206BI) 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.

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RCP Certification Report

December 17, 2021

SDG I.D.: GCJ93594

PEST Narration

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: CJ93598
Preceding CC D16B004 - 4,4'-DDT -22%L (20%), Endosulfan II -27%L (20%)
Succeeding CC D16B020 - % DCBP -25%L (20%), Methoxychlor -24%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.

AU-ECD7 12/09/21-1 Adam Werner, Chemist 12/09/21

CJ93594 (2X), CJ93595 (2X), CJ93596 (2X), CJ93597 (2X), CJ93598 (2X)

The initial calibration (PS1209AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS1209BI) 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: CJ93594
Preceding CC D09B084 - Endrin -24%L (20%)
Succeeding CC D09B111 - Endrin -24%L (20%), Methoxychlor -28%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.
Samples: CJ93595, CJ93596, CJ93597, CJ93598
Preceding CC D09B111 - Endrin -24%L (20%), Methoxychlor -28%L (20%)
Succeeding CC D09B138 - Endrin -31%L (20%), Methoxychlor -37%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 603851 (CJ93594)

CJ93594, CJ93595, CJ93596, CJ93597, CJ93598

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 BLK, LCS and LCSD

Batch 604823 (CJ93472)

CJ93598

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: Endosulfan I(21.5%), Endrin aldehyde(23.5%)

SVOA Narration

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

Instrument:

CHEM28 12/09/21-1 Matt Richard, Chemist 12/09/21

CJ93594 (1X), CJ93595 (1X), CJ93596 (1X), CJ93597 (1X), CJ93598 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and

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RCP Certification Report

December 17, 2021

SDG I.D.: GCJ93594

SVOA Narration

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_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 (CHEM28/1209_03-28_BN_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.

QC (Batch Specific):

Batch 604822 (CJ93598)

CJ93598

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 603821 (CJ93594)

CJ93594, CJ93595, CJ93596, CJ93597, CJ93598

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%)

SVOASIM Narration

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

Instrument:

CHEM27 12/16/21-1 Wes Bryon, Chemist 12/16/21

CJ93598 (1X, 1000X)

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

NY # 11301

RCP Certification Report

December 17, 2021

SDG I.D.: GCJ93594

SVOASIM Narration

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

Initial Calibration Evaluation (CHEM27/27_BNSIM18_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 (CHEM27/1216_03-27_BNSIM18_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.

QC (Batch Specific):

Batch 604822 (CJ93598)

CJ93598

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 603821 (CJ93594)

CJ93594, CJ93595, CJ93596, CJ93597, CJ93598

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%)

Temperature Narration

The samples were received at 2.0C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☑ No ☐
Coolant: IPK ☑ ICE ☐ No ☐

CHAIN OF CUSTODY RECORD

Temp 2.0 °C Pg 1 of 1

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
☐ Fax:
☒ Phone: 203-828-7313
☒ Email: bsirowich@tighebond.com

Customer: Tighe & Bond ~~West~~ Inc.
Address: 213 Court Street 11th Floor
Middletown, CT 06457

Project: Fairfield Athletic Fields, Burr Elementary
Report to: Brian Sirowich, Hurley Langford, Jill Libby, Casey Watts
Invoice to: Tighe & Bond Westfield
QUOTE # VAS Pricing
Project P.O: 15-0439-055

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 12/8/21

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	PCBs Soxhlet 8082	Lead, Arsenic (Total)	EDPH by CTDPH	PAHs by 8270	Pesticides 8081	MS/MSD*	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (SD) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCL	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
93594	BES-201 (0.5-1)	S	12/8/21	1620	X	X	X	X	X								1					
93595	BES-201A (0-0.5)	S	12/8/21	1621	X	X	X	X	X								1					
93596	BES-201B (0-0.5)	S	12/8/21	1622	X	X	X	X	X								1					
93597	BES-201C (0-0.5)	S	12/8/21	1623	X	X	X	X	X								1					
93598	BES-201D (0-0.5)	S	12/8/21	1624	X	X	X	X	X								1					

Relinquished by:	Accepted by:	Date:	Time:
[signature]	Tighe & Bond Fridge	12/8/21	1800
[signature]	[signature]	12/9/21	1015
[signature]	[signature]	12/09	1113

Comments, Special Requirements or Regulations:

Turnaround Time:
☐ 1 Day*
☒ 2 Days*
☐ 3 Days*
☐ Standard
☐ Other
* SURCHARGE APPLIES

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

RI
☐ (Residential) Direct Exposure
☐ (Comm/Industrial) Direct Exposure
☐ GA Leachability
☐ GB Leachability
☐ GA-GW Objectives
☐ GB-GW Objectives

CT
☒ RCP Cert
☐ GW Protection
☐ SW Protection
☒ GA Mobility
☐ GB Mobility
☒ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1 ☐ MWRA eSMART
☐ GW-2 ☐ S-1 10% CALC
☐ 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

State where samples were collected: CT

Data Format
☐ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☒ Other Enviro Data

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☒ Phoenix Std Report
☐ Other

* SURCHARGE APPLIES

PEL-126 REV. 06/20

Sarah Bell

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Wednesday, December 15, 2021 3:25 PM
To: Sarah Bell
Cc: Brian Sirowich; Jill L. Libby
Subject: Sample Activation

Hi Sarah,
Would you be able to activate the following sample for SPLP PAHs and SPLP Pesticides, quickest TAT:

BES-201D 0.5-1' (T&B Sampling ID)
CJ93598 (Lab Sample ID)
GCJ93594 (Lab Report ID)

Thanks,

Mark

Mark E. Paulsson
Project Environmental Scientist

Tighe&Bond

o. 203.712.1106 | m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484
w: tighebond.com | halvorsondesign.com

PHOENIX
Environmental Laboratories, Inc.

Monday, January 10, 2022

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

Project ID: BURR ELEMENTARY SCHOOL
SDG ID: GCK06455
Sample ID#s: CK06455 - CK06460

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

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

January 10, 2022

SDG I.D.: GCK06455

Project ID: BURR ELEMENTARY SCHOOL

Client Id	Lab Id	Matrix
BES-301B (0.5)	CK06455	SOIL
BES-302B (0.5)	CK06456	SOIL
BES-303S (0.0-0.5)	CK06457	SOIL
BES-304S (0.0-0.5)	CK06458	SOIL
BES-305S (0.0-0.5)	CK06459	SOIL
BES-306S (0.0-0.5)	CK06460	SOIL

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

Analysis Report

January 10, 2022

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/28/21	11:55
Location Code:	TIGHE-DAS	Received by:	LB	12/28/21	15:41
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	150439BES				

Laboratory Data

SDG ID: GCK06455
Phoenix ID: CK06455

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-301B (0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.42	0.82	mg/Kg	1	12/29/21	EK	SW6010D
Lead	12.0	0.41	mg/Kg	1	12/29/21	EK	SW6010D
Percent Solid	86		%		12/28/21	C	SW846-%Solid
Soil Extraction for Pesticide	Completed				12/28/21	O/E	SW3545A
Extraction of ETPH	Completed				12/28/21	B/U/E	SW3546
Soil Extraction for SVOA PAH	Completed				12/28/21	R/U	SW3546
Extraction for PCB	Completed				12/28/21	SX/Q/C	SW3540C
SPLP Extraction for Organics	Completed				01/03/22	AB	SW1312
SPLP Pesticides Ext.	Completed				01/04/22	JS/JS	SW3510C
Total Metals Digest	Completed				12/28/21	B/P	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	12/29/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	12/29/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	68		%	1	12/29/21	JRB	50 - 150 %
% Terphenyl (surr)	63		%	1	12/29/21	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	190	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1221	ND	190	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1232	ND	190	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1242	ND	190	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1248	ND	190	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1254	ND	190	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1260	ND	190	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1262	ND	190	ug/Kg	5	12/29/21	SC	SW8082A

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-301B (0.5)

Phoenix I.D.: CK06455

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1268	ND	190	ug/Kg	5	12/29/21	SC	SW8082A
QA/QC Surrogates							
% DCBP	94		%	5	12/29/21	SC	30 - 150 %
% DCBP (Confirmation)	92		%	5	12/29/21	SC	30 - 150 %
% TCMX	81		%	5	12/29/21	SC	30 - 150 %
% TCMX (Confirmation)	82		%	5	12/29/21	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.5	ug/Kg	2	12/29/21	AW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	12/29/21	AW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	12/29/21	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	12/29/21	AW	SW8081B
Alachlor	ND	7.5	ug/Kg	2	12/29/21	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	12/29/21	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	12/29/21	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	12/29/21	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	12/29/21	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	12/29/21	AW	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	12/29/21	AW	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	12/29/21	AW	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	12/29/21	AW	SW8081B
Endrin	ND	7.5	ug/Kg	2	12/29/21	AW	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	12/29/21	AW	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	12/29/21	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	12/29/21	AW	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	12/29/21	AW	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	12/29/21	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	12/29/21	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	12/29/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	64		%	2	12/29/21	AW	30 - 150 %
% DCBP (Confirmation)	64		%	2	12/29/21	AW	30 - 150 %
% TCMX	61		%	2	12/29/21	AW	30 - 150 %
% TCMX (Confirmation)	58		%	2	12/29/21	AW	30 - 150 %
SPLP Pesticides							
4,4' -DDD	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
4,4' -DDE	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
4,4' -DDT	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
a-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Alachlor	ND	0.010	ug/L	1	01/04/22	AW	SW8081B
Aldrin	ND	0.003	ug/L	1	01/04/22	AW	SW8081B
b-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Chlordane	ND	0.050	ug/L	1	01/04/22	AW	SW8081B
d-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Dieldrin	ND	0.002	ug/L	1	01/04/22	AW	SW8081B
Endosulfan I	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Endosulfan II	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Endosulfan sulfate	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Endrin	ND	0.005	ug/L	1	01/04/22	AW	SW8081B

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-301B (0.5)

Phoenix I.D.: CK06455

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin aldehyde	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Endrin Ketone	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
g-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Heptachlor	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Heptachlor epoxide	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Methoxychlor	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Toxaphene	ND	0.20	ug/L	1	01/04/22	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	52		%	1	01/04/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	98		%	1	01/04/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	78		%	1	01/04/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	105		%	1	01/04/22	AW	30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Fluoranthene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Phenanthrene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Pyrene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	95		%	1	12/29/21	WB	30 - 130 %
% Nitrobenzene-d5	76		%	1	12/29/21	WB	30 - 130 %
% Terphenyl-d14	67		%	1	12/29/21	WB	30 - 130 %

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-301B (0.5)

Phoenix I.D.: CK06455

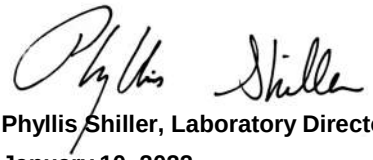
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

January 10, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

January 10, 2022

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/28/21	12:00
Location Code:	TIGHE-DAS	Received by:	LB	12/28/21	15:41
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	150439BES				

Laboratory Data

SDG ID: GCK06455
Phoenix ID: CK06456

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-302B (0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.34	0.85	mg/Kg	1	12/29/21	EK	SW6010D
Lead	13.5	0.43	mg/Kg	1	12/29/21	EK	SW6010D
Percent Solid	84		%		12/28/21	C	SW846-%Solid
Soil Extraction for Pesticide	Completed				12/28/21	O/E	SW3545A
Extraction of ETPH	Completed				12/28/21	B/U/E	SW3546
Soil Extraction for SVOA PAH	Completed				12/28/21	R/U	SW3546
Extraction for PCB	Completed				12/28/21	SX/Q/C	SW3540C
SPLP Extraction for Organics	Completed				01/03/22	AB	SW1312
SPLP Pesticides Ext.	Completed				01/04/22	JS/JS	SW3510C
Total Metals Digest	Completed				12/28/21	B/P	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	12/29/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	12/29/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	75		%	1	12/29/21	JRB	50 - 150 %
% Terphenyl (surr)	69		%	1	12/29/21	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	200	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1221	ND	200	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1232	ND	200	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1242	ND	200	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1248	ND	200	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1254	ND	200	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1260	ND	200	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1262	ND	200	ug/Kg	5	12/29/21	SC	SW8082A

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-302B (0.5)

Phoenix I.D.: CK06456

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1268	ND	200	ug/Kg	5	12/29/21	SC	SW8082A
QA/QC Surrogates							
% DCBP	83		%	5	12/29/21	SC	30 - 150 %
% DCBP (Confirmation)	87		%	5	12/29/21	SC	30 - 150 %
% TCMX	72		%	5	12/29/21	SC	30 - 150 %
% TCMX (Confirmation)	82		%	5	12/29/21	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
Alachlor	ND	7.8	ug/Kg	2	12/29/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	12/29/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	12/29/21	AW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	12/29/21	AW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	12/29/21	AW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	12/29/21	AW	SW8081B
Endrin	ND	7.8	ug/Kg	2	12/29/21	AW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	12/29/21	AW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	12/29/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	12/29/21	AW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	12/29/21	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	12/29/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	12/29/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	65		%	2	12/29/21	AW	30 - 150 %
% DCBP (Confirmation)	68		%	2	12/29/21	AW	30 - 150 %
% TCMX	63		%	2	12/29/21	AW	30 - 150 %
% TCMX (Confirmation)	62		%	2	12/29/21	AW	30 - 150 %
SPLP Pesticides							
4,4' -DDD	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
4,4' -DDE	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
4,4' -DDT	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
a-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Alachlor	ND	0.010	ug/L	1	01/04/22	AW	SW8081B
Aldrin	ND	0.003	ug/L	1	01/04/22	AW	SW8081B
b-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Chlordane	ND	0.050	ug/L	1	01/04/22	AW	SW8081B
d-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Dieldrin	ND	0.002	ug/L	1	01/04/22	AW	SW8081B
Endosulfan I	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Endosulfan II	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Endosulfan sulfate	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Endrin	ND	0.005	ug/L	1	01/04/22	AW	SW8081B

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-302B (0.5)

Phoenix I.D.: CK06456

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin aldehyde	ND	0.020	ug/L	1	01/04/22	AW	SW8081B
Endrin Ketone	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
g-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Heptachlor	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Heptachlor epoxide	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Methoxychlor	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Toxaphene	ND	0.20	ug/L	1	01/04/22	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	68		%	1	01/04/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	59		%	1	01/04/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	129		%	1	01/04/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	87		%	1	01/04/22	AW	30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Fluoranthene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Phenanthrene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
Pyrene	ND	270	ug/Kg	1	12/29/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	98		%	1	12/29/21	WB	30 - 130 %
% Nitrobenzene-d5	84		%	1	12/29/21	WB	30 - 130 %
% Terphenyl-d14	70		%	1	12/29/21	WB	30 - 130 %

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-302B (0.5)

Phoenix I.D.: CK06456

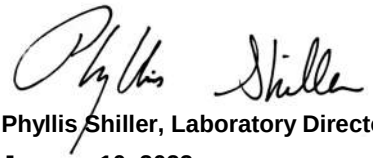
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

January 10, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

January 10, 2022

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/28/21	12:05
Location Code:	TIGHE-DAS	Received by:	LB	12/28/21	15:41
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	150439BES				

Laboratory Data

SDG ID: GCK06455
Phoenix ID: CK06457

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-303S (0.0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.23	0.82	mg/Kg	1	12/29/21	EK	SW6010D
Lead	8.89	0.41	mg/Kg	1	12/29/21	EK	SW6010D
Percent Solid	76		%		12/28/21	C	SW846-%Solid
Soil Extraction for Pesticide	Completed				12/28/21	O/E	SW3545A
Extraction of ETPH	Completed				12/28/21	B/U/E	SW3546
Soil Extraction for SVOA PAH	Completed				12/28/21	R/U	SW3546
Extraction for PCB	Completed				12/28/21	SX/Q/C	SW3540C
SPLP Extraction for Organics	Completed				01/03/22	AB	SW1312
SPLP Pesticides Ext.	Completed				01/04/22	JS/JS	SW3510C
Total Metals Digest	Completed				12/28/21	B/P	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	64	mg/Kg	1	12/29/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	12/29/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	60		%	1	12/29/21	JRB	50 - 150 %
% Terphenyl (surr)	60		%	1	12/29/21	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	220	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1221	ND	220	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1232	ND	220	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1242	ND	220	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1248	ND	220	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1254	ND	220	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1260	ND	220	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1262	ND	220	ug/Kg	5	12/29/21	SC	SW8082A

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-303S (0.0-0.5)

Phoenix I.D.: CK06457

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1268	ND	220	ug/Kg	5	12/29/21	SC	SW8082A
QA/QC Surrogates							
% DCBP	72		%	5	12/29/21	SC	30 - 150 %
% DCBP (Confirmation)	68		%	5	12/29/21	SC	30 - 150 %
% TCMX	66		%	5	12/29/21	SC	30 - 150 %
% TCMX (Confirmation)	67		%	5	12/29/21	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.7	ug/Kg	2	12/29/21	AW	SW8081B
4,4' -DDE	ND	1.7	ug/Kg	2	12/29/21	AW	SW8081B
4,4' -DDT	ND	1.7	ug/Kg	2	12/29/21	AW	SW8081B
a-BHC	ND	1.7	ug/Kg	2	12/29/21	AW	SW8081B
Alachlor	ND	8.6	ug/Kg	2	12/29/21	AW	SW8081B
Aldrin	ND	1.7	ug/Kg	2	12/29/21	AW	SW8081B
b-BHC	ND	1.7	ug/Kg	2	12/29/21	AW	SW8081B
Chlordane	ND	43	ug/Kg	2	12/29/21	AW	SW8081B
d-BHC	ND	1.7	ug/Kg	2	12/29/21	AW	SW8081B
Dieldrin	ND	4.3	ug/Kg	2	12/29/21	AW	SW8081B
Endosulfan I	ND	8.6	ug/Kg	2	12/29/21	AW	SW8081B
Endosulfan II	ND	8.6	ug/Kg	2	12/29/21	AW	SW8081B
Endosulfan sulfate	ND	8.6	ug/Kg	2	12/29/21	AW	SW8081B
Endrin	ND	8.6	ug/Kg	2	12/29/21	AW	SW8081B
Endrin aldehyde	ND	8.6	ug/Kg	2	12/29/21	AW	SW8081B
Endrin ketone	ND	8.6	ug/Kg	2	12/29/21	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	12/29/21	AW	SW8081B
Heptachlor	ND	8.6	ug/Kg	2	12/29/21	AW	SW8081B
Heptachlor epoxide	ND	8.6	ug/Kg	2	12/29/21	AW	SW8081B
Methoxychlor	ND	43	ug/Kg	2	12/29/21	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	12/29/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	79		%	2	12/29/21	AW	30 - 150 %
% DCBP (Confirmation)	71		%	2	12/29/21	AW	30 - 150 %
% TCMX	81		%	2	12/29/21	AW	30 - 150 %
% TCMX (Confirmation)	69		%	2	12/29/21	AW	30 - 150 %
SPLP Pesticides							
4,4' -DDD	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
4,4' -DDE	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
4,4' -DDT	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
a-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Alachlor	ND	0.010	ug/L	1	01/04/22	AW	SW8081B
Aldrin	ND	0.003	ug/L	1	01/04/22	AW	SW8081B
b-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Chlordane	ND	0.050	ug/L	1	01/04/22	AW	SW8081B
d-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Dieldrin	ND	0.010	ug/L	1	01/04/22	AW	SW8081B
Endosulfan I	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Endosulfan II	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Endosulfan sulfate	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Endrin	ND	0.005	ug/L	1	01/04/22	AW	SW8081B

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-303S (0.0-0.5)

Phoenix I.D.: CK06457

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin aldehyde	ND	0.010	ug/L	1	01/04/22	AW	SW8081B
Endrin Ketone	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
g-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Heptachlor	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Heptachlor epoxide	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Methoxychlor	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Toxaphene	ND	0.20	ug/L	1	01/04/22	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	70		%	1	01/04/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	66		%	1	01/04/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	129		%	1	01/04/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	98		%	1	01/04/22	AW	30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	300	ug/Kg	1	12/29/21	WB	SW8270D
Acenaphthene	ND	300	ug/Kg	1	12/29/21	WB	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	12/29/21	WB	SW8270D
Anthracene	ND	300	ug/Kg	1	12/29/21	WB	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	12/29/21	WB	SW8270D
Chrysene	ND	300	ug/Kg	1	12/29/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	12/29/21	WB	SW8270D
Fluoranthene	ND	300	ug/Kg	1	12/29/21	WB	SW8270D
Fluorene	ND	300	ug/Kg	1	12/29/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	12/29/21	WB	SW8270D
Naphthalene	ND	300	ug/Kg	1	12/29/21	WB	SW8270D
Phenanthrene	ND	300	ug/Kg	1	12/29/21	WB	SW8270D
Pyrene	ND	300	ug/Kg	1	12/29/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	102		%	1	12/29/21	WB	30 - 130 %
% Nitrobenzene-d5	80		%	1	12/29/21	WB	30 - 130 %
% Terphenyl-d14	69		%	1	12/29/21	WB	30 - 130 %

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-303S (0.0-0.5)

Phoenix I.D.: CK06457

Parameter	Result	RL/ 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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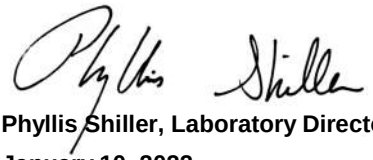


Phyllis Shiller, Laboratory Director

January 10, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

January 10, 2022

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/28/21	12:10
Location Code:	TIGHE-DAS	Received by:	LB	12/28/21	15:41
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	150439BES				

Laboratory Data

SDG ID: GCK06455
Phoenix ID: CK06458

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-304S (0.0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.86	0.86	mg/Kg	1	12/29/21	EK	SW6010D
Lead	12.6	0.43	mg/Kg	1	12/29/21	EK	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	01/07/22	EK	SW6010D
SPLP Metals Digestion	Completed				01/07/22	AB/AB	SW3010A
Percent Solid	81		%		12/28/21	C	SW846-%Solid
Soil Extraction for Pesticide	Completed				12/28/21	O/E	SW3545A
Extraction of ETPH	Completed				12/28/21	B/U/E	SW3546
Soil Extraction for SVOA PAH	Completed				12/28/21	R/U	SW3546
Extraction for PCB	Completed				12/28/21	SX/Q/C	SW3540C
SPLP Extraction for Metals	Completed				01/06/22	AB	SW1312
SPLP Extraction for Organics	Completed				01/03/22	AB	SW1312
SPLP Pesticides Ext.	Completed				01/04/22	JS/JS	SW3510C
Total Metals Digest	Completed				12/28/21	B/P	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	12/29/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	12/29/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	58		%	1	12/29/21	JRB	50 - 150 %
% Terphenyl (surr)	57		%	1	12/29/21	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	210	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1221	ND	210	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1232	ND	210	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1242	ND	210	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1248	ND	210	ug/Kg	5	12/29/21	SC	SW8082A

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-304S (0.0-0.5)

Phoenix I.D.: CK06458

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	210	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1260	ND	210	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1262	ND	210	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1268	ND	210	ug/Kg	5	12/29/21	SC	SW8082A
QA/QC Surrogates							
% DCBP	83		%	5	12/29/21	SC	30 - 150 %
% DCBP (Confirmation)	82		%	5	12/29/21	SC	30 - 150 %
% TCMX	32		%	5	12/29/21	SC	30 - 150 %
% TCMX (Confirmation)	37		%	5	12/29/21	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
Alachlor	ND	8.2	ug/Kg	2	12/29/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
Chlordane	ND	41	ug/Kg	2	12/29/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	12/29/21	AW	SW8081B
Endosulfan I	ND	8.2	ug/Kg	2	12/29/21	AW	SW8081B
Endosulfan II	ND	8.2	ug/Kg	2	12/29/21	AW	SW8081B
Endosulfan sulfate	ND	8.2	ug/Kg	2	12/29/21	AW	SW8081B
Endrin	ND	8.2	ug/Kg	2	12/29/21	AW	SW8081B
Endrin aldehyde	ND	8.2	ug/Kg	2	12/29/21	AW	SW8081B
Endrin ketone	ND	8.2	ug/Kg	2	12/29/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
Heptachlor	ND	8.2	ug/Kg	2	12/29/21	AW	SW8081B
Heptachlor epoxide	ND	8.2	ug/Kg	2	12/29/21	AW	SW8081B
Methoxychlor	ND	41	ug/Kg	2	12/29/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	12/29/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	52		%	2	12/29/21	AW	30 - 150 %
% DCBP (Confirmation)	69		%	2	12/29/21	AW	30 - 150 %
% TCMX	59		%	2	12/29/21	AW	30 - 150 %
% TCMX (Confirmation)	59		%	2	12/29/21	AW	30 - 150 %
SPLP Pesticides							
4,4' -DDD	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
4,4' -DDE	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
4,4' -DDT	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
a-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Alachlor	ND	0.010	ug/L	1	01/04/22	AW	SW8081B
Aldrin	ND	0.003	ug/L	1	01/04/22	AW	SW8081B
b-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Chlordane	ND	0.050	ug/L	1	01/04/22	AW	SW8081B
d-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Dieldrin	ND	0.002	ug/L	1	01/04/22	AW	SW8081B
Endosulfan I	ND	0.005	ug/L	1	01/04/22	AW	SW8081B

Ver 2

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-304S (0.0-0.5)

Phoenix I.D.: CK06458

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan II	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Endosulfan sulfate	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Endrin	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Endrin aldehyde	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Endrin Ketone	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
g-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Heptachlor	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Heptachlor epoxide	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Methoxychlor	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Toxaphene	ND	0.20	ug/L	1	01/04/22	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	44		%	1	01/04/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	95		%	1	01/04/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	74		%	1	01/04/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	86		%	1	01/04/22	AW	30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Acenaphthene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Anthracene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Chrysene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Fluoranthene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Fluorene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Naphthalene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Phenanthrene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Pyrene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	93		%	1	12/29/21	WB	30 - 130 %
% Nitrobenzene-d5	76		%	1	12/29/21	WB	30 - 130 %
% Terphenyl-d14	66		%	1	12/29/21	WB	30 - 130 %

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-304S (0.0-0.5)

Phoenix I.D.: CK06458

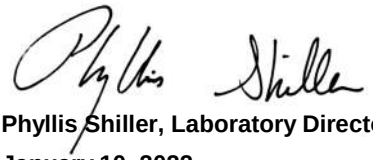
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

January 10, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

January 10, 2022

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/28/21	12:15
Location Code:	TIGHE-DAS	Received by:	LB	12/28/21	15:41
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	150439BES				

Laboratory Data

SDG ID: GCK06455
Phoenix ID: CK06459

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-305S (0.0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.61	0.73	mg/Kg	1	12/29/21	EK	SW6010D
Lead	14.4	0.36	mg/Kg	1	12/29/21	EK	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	01/07/22	EK	SW6010D
SPLP Metals Digestion	Completed				01/07/22	AB/AB	SW3010A
Percent Solid	82		%		12/28/21	C	SW846-%Solid
Soil Extraction for Pesticide	Completed				12/28/21	O/E	SW3545A
Extraction of ETPH	Completed				12/28/21	B/U/E	SW3546
Soil Extraction for SVOA PAH	Completed				12/28/21	R/U	SW3546
Extraction for PCB	Completed				12/28/21	SX/Q/C	SW3540C
SPLP Extraction for Metals	Completed				01/06/22	AB	SW1312
SPLP Extraction for Organics	Completed				01/03/22	AB	SW1312
SPLP Pesticides Ext.	Completed				01/04/22	JS/JS	SW3510C
Total Metals Digest	Completed				12/28/21	B/P	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	12/29/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	12/29/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	75		%	1	12/29/21	JRB	50 - 150 %
% Terphenyl (surr)	82		%	1	12/29/21	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	200	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1221	ND	200	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1232	ND	200	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1242	ND	200	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1248	ND	200	ug/Kg	5	12/29/21	SC	SW8082A

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-305S (0.0-0.5)

Phoenix I.D.: CK06459

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	200	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1260	ND	200	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1262	ND	200	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1268	ND	200	ug/Kg	5	12/29/21	SC	SW8082A
QA/QC Surrogates							
% DCBP	72		%	5	12/29/21	SC	30 - 150 %
% DCBP (Confirmation)	82		%	5	12/29/21	SC	30 - 150 %
% TCMX	69		%	5	12/29/21	SC	30 - 150 %
% TCMX (Confirmation)	67		%	5	12/29/21	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
Alachlor	ND	7.9	ug/Kg	2	12/29/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
Chlordane	ND	40	ug/Kg	2	12/29/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	12/29/21	AW	SW8081B
Endosulfan I	ND	7.9	ug/Kg	2	12/29/21	AW	SW8081B
Endosulfan II	ND	7.9	ug/Kg	2	12/29/21	AW	SW8081B
Endosulfan sulfate	ND	7.9	ug/Kg	2	12/29/21	AW	SW8081B
Endrin	ND	7.9	ug/Kg	2	12/29/21	AW	SW8081B
Endrin aldehyde	ND	7.9	ug/Kg	2	12/29/21	AW	SW8081B
Endrin ketone	ND	7.9	ug/Kg	2	12/29/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
Heptachlor	ND	7.9	ug/Kg	2	12/29/21	AW	SW8081B
Heptachlor epoxide	ND	7.9	ug/Kg	2	12/29/21	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	12/29/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	12/29/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	51		%	2	12/29/21	AW	30 - 150 %
% DCBP (Confirmation)	68		%	2	12/29/21	AW	30 - 150 %
% TCMX	61		%	2	12/29/21	AW	30 - 150 %
% TCMX (Confirmation)	61		%	2	12/29/21	AW	30 - 150 %
SPLP Pesticides							
4,4' -DDD	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
4,4' -DDE	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
4,4' -DDT	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
a-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Alachlor	ND	0.010	ug/L	1	01/04/22	AW	SW8081B
Aldrin	ND	0.003	ug/L	1	01/04/22	AW	SW8081B
b-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Chlordane	ND	0.050	ug/L	1	01/04/22	AW	SW8081B
d-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Dieldrin	ND	0.002	ug/L	1	01/04/22	AW	SW8081B
Endosulfan I	ND	0.005	ug/L	1	01/04/22	AW	SW8081B

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-305S (0.0-0.5)

Phoenix I.D.: CK06459

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan II	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Endosulfan sulfate	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Endrin	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Endrin aldehyde	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Endrin Ketone	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
g-BHC	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Heptachlor	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Heptachlor epoxide	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Methoxychlor	ND	0.005	ug/L	1	01/04/22	AW	SW8081B
Toxaphene	ND	0.20	ug/L	1	01/04/22	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	48		%	1	01/04/22	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	129		%	1	01/04/22	AW	30 - 150 %
%TCMX (Surrogate Rec)	64		%	1	01/04/22	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	95		%	1	01/04/22	AW	30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	1	12/29/21	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	12/29/21	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	12/29/21	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	12/29/21	WB	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	12/29/21	WB	SW8270D
Chrysene	ND	280	ug/Kg	1	12/29/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	12/29/21	WB	SW8270D
Fluoranthene	ND	280	ug/Kg	1	12/29/21	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	12/29/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	12/29/21	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	12/29/21	WB	SW8270D
Phenanthrene	ND	280	ug/Kg	1	12/29/21	WB	SW8270D
Pyrene	ND	280	ug/Kg	1	12/29/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	98		%	1	12/29/21	WB	30 - 130 %
% Nitrobenzene-d5	83		%	1	12/29/21	WB	30 - 130 %
% Terphenyl-d14	68		%	1	12/29/21	WB	30 - 130 %

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-305S (0.0-0.5)

Phoenix I.D.: CK06459

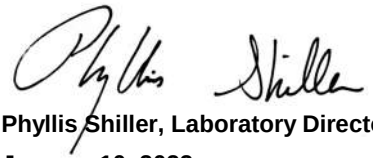
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

January 10, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

January 10, 2022

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/28/21	12:20
Location Code:	TIGHE-DAS	Received by:	LB	12/28/21	15:41
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	150439BES				

Laboratory Data

SDG ID: GCK06455
Phoenix ID: CK06460

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-306S (0.0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.21	0.75	mg/Kg	1	12/29/21	EK	SW6010D
Lead	15.3	0.38	mg/Kg	1	12/29/21	EK	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	01/07/22	EK	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	01/07/22	EK	SW6010D
SPLP Metals Digestion	Completed				01/07/22	AB/AB	SW3010A
Percent Solid	79		%		12/28/21	C	SW846-%Solid
Soil Extraction for Pesticide	Completed				12/28/21	O/E	SW3545A
Extraction of ETPH	Completed				12/28/21	B/U/E	SW3546
Soil Extraction for SVOA PAH	Completed				12/28/21	R/U	SW3546
Extraction for PCB	Completed				12/28/21	SX/Q/C	SW3540C
SPLP Extraction for Metals	Completed				01/06/22	AB	SW1312
SPLP Extraction for Organics	Completed				12/29/21	AB	SW1312
SPLP Pesticides Ext.	Completed				12/30/21	JS/JS	SW3510C
Total Metals Digest	Completed				12/28/21	B/P	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	12/29/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	12/29/21	JRB	CTETPH 8015D
QA/QC Surrogates							
% COD (surr)	52		%	1	12/29/21	JRB	50 - 150 %
% Terphenyl (surr)	64		%	1	12/29/21	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	210	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1221	ND	210	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1232	ND	210	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1242	ND	210	ug/Kg	5	12/29/21	SC	SW8082A

Ver 2

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-306S (0.0-0.5)

Phoenix I.D.: CK06460

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1248	ND	210	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1254	ND	210	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1260	ND	210	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1262	ND	210	ug/Kg	5	12/29/21	SC	SW8082A
PCB-1268	ND	210	ug/Kg	5	12/29/21	SC	SW8082A
QA/QC Surrogates							
% DCBP	74		%	5	12/29/21	SC	30 - 150 %
% DCBP (Confirmation)	72		%	5	12/29/21	SC	30 - 150 %
% TCMX	78		%	5	12/29/21	SC	30 - 150 %
% TCMX (Confirmation)	77		%	5	12/29/21	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
4,4' -DDE	6.0	1.6	ug/Kg	2	12/29/21	AW	SW8081B
4,4' -DDT	6.2	1.6	ug/Kg	2	12/29/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
Alachlor	ND	8.2	ug/Kg	2	12/29/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
Chlordane	ND	41	ug/Kg	2	12/29/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	12/29/21	AW	SW8081B
Endosulfan I	ND	8.2	ug/Kg	2	12/29/21	AW	SW8081B
Endosulfan II	ND	8.2	ug/Kg	2	12/29/21	AW	SW8081B
Endosulfan sulfate	ND	8.2	ug/Kg	2	12/29/21	AW	SW8081B
Endrin	ND	8.2	ug/Kg	2	12/29/21	AW	SW8081B
Endrin aldehyde	ND	8.2	ug/Kg	2	12/29/21	AW	SW8081B
Endrin ketone	ND	8.2	ug/Kg	2	12/29/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	12/29/21	AW	SW8081B
Heptachlor	ND	8.2	ug/Kg	2	12/29/21	AW	SW8081B
Heptachlor epoxide	ND	8.2	ug/Kg	2	12/29/21	AW	SW8081B
Methoxychlor	ND	41	ug/Kg	2	12/29/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	12/29/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	53		%	2	12/29/21	AW	30 - 150 %
% DCBP (Confirmation)	70		%	2	12/29/21	AW	30 - 150 %
% TCMX	63		%	2	12/29/21	AW	30 - 150 %
% TCMX (Confirmation)	61		%	2	12/29/21	AW	30 - 150 %
SPLP Pesticides							
4,4' -DDD	ND	0.005	ug/L	1	12/30/21	AW	SW8081B
4,4' -DDE	ND	0.005	ug/L	1	12/30/21	AW	SW8081B
4,4' -DDT	ND	0.005	ug/L	1	12/30/21	AW	SW8081B
a-BHC	ND	0.005	ug/L	1	12/30/21	AW	SW8081B
Alachlor	ND	0.010	ug/L	1	12/30/21	AW	SW8081B
Aldrin	ND	0.003	ug/L	1	12/30/21	AW	SW8081B
b-BHC	ND	0.005	ug/L	1	12/30/21	AW	SW8081B
Chlordane	ND	0.050	ug/L	1	12/30/21	AW	SW8081B
d-BHC	ND	0.005	ug/L	1	12/30/21	AW	SW8081B
Dieldrin	ND	0.002	ug/L	1	12/30/21	AW	SW8081B

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-306S (0.0-0.5)

Phoenix I.D.: CK06460

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan I	ND	0.005	ug/L	1	12/30/21	AW	SW8081B
Endosulfan II	ND	0.005	ug/L	1	12/30/21	AW	SW8081B
Endosulfan sulfate	ND	0.010	ug/L	1	12/30/21	AW	SW8081B
Endrin	ND	0.005	ug/L	1	12/30/21	AW	SW8081B
Endrin aldehyde	ND	0.005	ug/L	1	12/30/21	AW	SW8081B
Endrin Ketone	ND	0.005	ug/L	1	12/30/21	AW	SW8081B
g-BHC	ND	0.005	ug/L	1	12/30/21	AW	SW8081B
Heptachlor	ND	0.005	ug/L	1	12/30/21	AW	SW8081B
Heptachlor epoxide	ND	0.005	ug/L	1	12/30/21	AW	SW8081B
Methoxychlor	ND	0.005	ug/L	1	12/30/21	AW	SW8081B
Toxaphene	ND	0.20	ug/L	1	12/30/21	AW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	35		%	1	12/30/21	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	32		%	1	12/30/21	AW	30 - 150 %
%TCMX (Surrogate Rec)	80		%	1	12/30/21	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	104		%	1	12/30/21	AW	30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Acenaphthene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Anthracene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Chrysene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Fluoranthene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Fluorene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Naphthalene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Phenanthrene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
Pyrene	ND	290	ug/Kg	1	12/29/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	105		%	1	12/29/21	WB	30 - 130 %
% Nitrobenzene-d5	85		%	1	12/29/21	WB	30 - 130 %
% Terphenyl-d14	76		%	1	12/29/21	WB	30 - 130 %

Project ID: BURR ELEMENTARY SCHOOL
Client ID: BES-306S (0.0-0.5)

Phoenix I.D.: CK06460

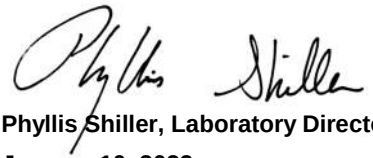
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

January 10, 2022

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

QA/QC Report

January 10, 2022

QA/QC Data

SDG I.D.: GCK06455

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 606256 (mg/kg), QC Sample No: CK06297 (CK06455, CK06456, CK06457, CK06458, CK06459, CK06460)													
ICP Metals - Soil													
Arsenic	BRL	0.67	1.41	1.68	NC	103	101	2.0	94.7			75 - 125	35
Lead	BRL	0.33	36.1	39.2	8.20	101	93.8	7.4	95.2			75 - 125	35
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													
QA/QC Batch 607330 (mg/L), QC Sample No: CK10719 (CK06458, CK06459, CK06460)													
ICP Metals - SPLP Extraction													
Arsenic	BRL	0.004	<0.004	<0.004	NC	92.1	92.0	0.1	98.5			80 - 120	20
Lead	BRL	0.010	0.022	0.022	NC	93.0	93.1	0.1	100			80 - 120	20
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													

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QA/QC Report

January 10, 2022

QA/QC Data

SDG I.D.: GCK06455

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 606257 (mg/Kg), QC Sample No: CK06450 (CK06455, CK06456, CK06457, CK06458, CK06459, CK06460)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	76	79	3.9	92	113	20.5	60 - 120	30	
% COD (surr)	34	%	54	58	7.1	81	124	42.0	50 - 150	30	r,s
% Terphenyl (surr)	89	%	94	95	1.1	105	134	24.3	50 - 150	30	
Comment:											
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.											
QA/QC Batch 606255 (ug/Kg), QC Sample No: CK05913 10X (CK06455, CK06456, CK06457, CK06458, CK06459, CK06460)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	170	82	81	1.2	100	91	9.4	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	90	86	4.5	NC	NC	NC	40 - 140	30	
PCB-1262	ND	170							40 - 140	30	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	86	%	95	92	3.2	73	94	25.1	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	81	%	91	89	2.2	73	112	42.2	30 - 150	30	r
% TCMX (Surrogate Rec)	71	%	83	80	3.7	83	76	8.8	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	72	%	86	79	8.5	88	66	28.6	30 - 150	30	
QA/QC Batch 606227 (ug/Kg), QC Sample No: CK05643 2X (CK06455, CK06456, CK06457, CK06458, CK06459, CK06460)											
Pesticides - Soil											
4,4' -DDD	ND	1.7	82	82	0.0	140	123	12.9	40 - 140	30	
4,4' -DDE	ND	1.7	75	78	3.9	104	103	1.0	40 - 140	30	
4,4' -DDT	ND	1.7	66	68	3.0	123	114	7.6	40 - 140	30	
a-BHC	ND	1.0	64	68	6.1	83	91	9.2	40 - 140	30	
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	1.0	61	65	6.3	81	82	1.2	40 - 140	30	
b-BHC	ND	1.0	73	75	2.7	96	99	3.1	40 - 140	30	
Chlordane	ND	33	69	73	5.6	95	98	3.1	40 - 140	30	
d-BHC	ND	3.3	74	52	34.9	82	70	15.8	40 - 140	30	r
Dieldrin	ND	1.0	65	69	6.0	83	84	1.2	40 - 140	30	
Endosulfan I	ND	3.3	64	69	7.5	73	79	7.9	40 - 140	30	
Endosulfan II	ND	3.3	75	82	8.9	100	105	4.9	40 - 140	30	
Endosulfan sulfate	ND	3.3	71	75	5.5	112	104	7.4	40 - 140	30	
Endrin	ND	3.3	65	65	0.0	87	82	5.9	40 - 140	30	
Endrin aldehyde	ND	3.3	55	61	10.3	83	82	1.2	40 - 140	30	
Endrin ketone	ND	3.3	73	68	7.1	92	93	1.1	40 - 140	30	
g-BHC	ND	1.0	71	76	6.8	100	94	6.2	40 - 140	30	

QA/QC Data

SDG I.D.: GCK06455

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Heptachlor	ND	3.3	60	64	6.5	80	80	0.0	40 - 140	30	
Heptachlor epoxide	ND	3.3	61	65	6.3	82	82	0.0	40 - 140	30	
Methoxychlor	ND	3.3	80	77	3.8	94	100	6.2	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	79	%	74	82	10.3	87	82	5.9	30 - 150	30	
% DCBP (Confirmation)	78	%	85	63	29.7	74	78	5.3	30 - 150	30	
% TCMX	75	%	73	78	6.6	93	94	1.1	30 - 150	30	
% TCMX (Confirmation)	70	%	79	66	17.9	77	81	5.1	30 - 150	30	
QA/QC Batch 606469 (ug/L), QC Sample No: CK05884 (CK06460)											
Pesticides											
4,4' -DDD	ND	0.003	84	73	14.0				40 - 140	20	
4,4' -DDE	ND	0.003	73	68	7.1				40 - 140	20	
4,4' -DDT	ND	0.003	65	73	11.6				40 - 140	20	
a-BHC	ND	0.002	65	57	13.1				40 - 140	20	
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20	
Aldrin	ND	0.002	56	57	1.8				40 - 140	20	
b-BHC	ND	0.002	71	55	25.4				40 - 140	20	r
Chlordane	ND	0.050	66	65	1.5				40 - 140	20	
d-BHC	ND	0.005	70	81	14.6				40 - 140	20	
Dieldrin	ND	0.002	61	67	9.4				40 - 140	20	
Endosulfan I	ND	0.005	53	74	33.1				40 - 140	20	r
Endosulfan II	ND	0.005	70	77	9.5				40 - 140	20	
Endosulfan sulfate	ND	0.005	65	67	3.0				40 - 140	20	
Endrin	ND	0.005	64	71	10.4				40 - 140	20	
Endrin aldehyde	ND	0.005	51	88	53.2				40 - 140	20	r
Endrin ketone	ND	0.005	58	68	15.9				40 - 140	20	
g-BHC	ND	0.002	66	60	9.5				40 - 140	20	
Heptachlor	ND	0.005	58	57	1.7				40 - 140	20	
Heptachlor epoxide	ND	0.005	53	63	17.2				40 - 140	20	
Methoxychlor	ND	0.005	72	61	16.5				40 - 140	20	
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20	
% DCBP	47	%	81	82	1.2				30 - 150	20	
% DCBP (Confirmation)	50	%	88	72	20.0				30 - 150	20	
% TCMX	77	%	100	94	6.2				30 - 150	20	
% TCMX (Confirmation)	105	%	95	89	6.5				30 - 150	20	
QA/QC Batch 606818 (ug/L), QC Sample No: CK06455 (CK06455, CK06456, CK06457, CK06458, CK06459)											
Pesticides											
4,4' -DDD	ND	0.003	99	106	6.8				40 - 140	20	
4,4' -DDE	ND	0.003	100	91	9.4				40 - 140	20	
4,4' -DDT	ND	0.003	96	87	9.8				40 - 140	20	
a-BHC	ND	0.002	88	119	30.0				40 - 140	20	r
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20	
Aldrin	ND	0.002	100	98	2.0				40 - 140	20	
b-BHC	ND	0.002	113	130	14.0				40 - 140	20	
Chlordane	ND	0.050	96	99	3.1				40 - 140	20	
d-BHC	ND	0.005	59	76	25.2				40 - 140	20	r
Dieldrin	ND	0.002	96	108	11.8				40 - 140	20	
Endosulfan I	ND	0.005	102	88	14.7				40 - 140	20	
Endosulfan II	ND	0.005	118	124	5.0				40 - 140	20	
Endosulfan sulfate	ND	0.005	98	94	4.2				40 - 140	20	
Endrin	ND	0.005	101	109	7.6				40 - 140	20	
Endrin aldehyde	ND	0.005	91	79	14.1				40 - 140	20	

QA/QC Data

SDG I.D.: GCK06455

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Endrin ketone	ND	0.005	116	98	16.8				40 - 140	20	
g-BHC	ND	0.002	94	138	37.9				40 - 140	20	r
Heptachlor	ND	0.005	102	106	3.8				40 - 140	20	
Heptachlor epoxide	ND	0.005	99	88	11.8				40 - 140	20	
Methoxychlor	ND	0.005	99	99	0.0				40 - 140	20	
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20	
% DCBP	69	%	102	86	17.0				30 - 150	20	
% DCBP (Confirmation)	114	%	56	108	63.4				30 - 150	20	r
% TCMX	72	%	71	96	29.9				30 - 150	20	r
% TCMX (Confirmation)	103	%	60	102	51.9				30 - 150	20	r

Comment:

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 606258 (ug/kg), QC Sample No: CK05368 (CK06455, CK06456, CK06457, CK06458, CK06459, CK06460)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	77	69	11.0	74	79	6.5	40 - 140	30	
Acenaphthene	ND	230	100	85	16.2	93	97	4.2	30 - 130	30	
Acenaphthylene	ND	230	92	78	16.5	85	88	3.5	40 - 140	30	
Anthracene	ND	230	96	82	15.7	89	91	2.2	40 - 140	30	
Benz(a)anthracene	ND	230	97	83	15.6	88	96	8.7	40 - 140	30	
Benzo(a)pyrene	ND	230	89	77	14.5	83	88	5.8	40 - 140	30	
Benzo(b)fluoranthene	ND	230	88	80	9.5	81	80	1.2	40 - 140	30	
Benzo(ghi)perylene	ND	230	104	93	11.2	98	100	2.0	40 - 140	30	
Benzo(k)fluoranthene	ND	230	85	74	13.8	80	78	2.5	40 - 140	30	
Chrysene	ND	230	96	82	15.7	87	92	5.6	40 - 140	30	
Dibenz(a,h)anthracene	ND	230	103	88	15.7	95	100	5.1	40 - 140	30	
Fluoranthene	ND	230	85	80	6.1	73	72	1.4	40 - 140	30	
Fluorene	ND	230	95	82	14.7	88	91	3.4	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	109	96	12.7	102	110	7.5	40 - 140	30	
Naphthalene	ND	230	76	67	12.6	73	78	6.6	40 - 140	30	
Phenanthrene	ND	230	97	85	13.2	92	92	0.0	40 - 140	30	
Pyrene	ND	230	71	68	4.3	64	66	3.1	30 - 130	30	
% 2-Fluorobiphenyl	98	%	93	80	15.0	88	92	4.4	30 - 130	30	
% Nitrobenzene-d5	74	%	76	68	11.1	70	82	15.8	30 - 130	30	
% Terphenyl-d14	75	%	81	77	5.1	74	76	2.7	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%)

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

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
January 10, 2022

Monday, January 10, 2022

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCK06455 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CK06460	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	6.2	1.6	3	3	ug/Kg
CK06460	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	6.0	1.6	3	3	ug/Kg

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

Project Location: BURR ELEMENTARY SCHOOL ***Project Number:***

Laboratory Sample ID(s): CK06455-CK06460 ***Sampling Date(s):*** 12/28/2021

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	***VPH and EPH methods only:*** **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, PEST Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ 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: Phyllis Shiller **Position:** Laboratory Director

Printed Name: Phyllis Shiller **Date:** Monday, January 10, 2022

Name of Laboratory Phoenix Environmental Labs, Inc.

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

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

NY # 11301

RCP Certification Report

January 10, 2022

SDG I.D.: GCK06455

SDG Comments

Metals Analysis:
The client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Barium, Beryllium, Cadmium, Chromium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

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 606257 (Samples: CK06455, CK06456, CK06457, CK06458, CK06459, CK06460): -----

The blank surrogate was below criteria. A low bias is possible. (% COD (surr)(CK06450))

Instrument:

AU-FID84 12/27/21-1 Jeff Bucko, Chemist 12/27/21

CK06459 (1X), CK06460 (1X)

The initial calibration (ET_D09AI) 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 (D27A003) 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 12/27/21-1 Jeff Bucko, Chemist 12/27/21

CK06455 (1X), CK06456 (1X), CK06457 (1X), CK06458 (1X)

The initial calibration (ETPHO13I) 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 (D27A003_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: CK06455, CK06456, CK06457, CK06458
Preceding CC D27A061 - None.
Succeeding CC D27A073 - % Cod (surr) 38%H (30%), ETPH (C9-C36) 39%H (30%)

QC (Batch Specific):

Batch 606257 (CK06450)

CK06455, CK06456, CK06457, CK06458, CK06459, CK06460

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-2 01/07/22 09:24 Emily Kolominskaya, Chemist 01/07/22

CK06458, CK06459, CK06460

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Certification Report

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SDG I.D.: GCK06455

ICP Metals Narration

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-2 12/28/21 16:57 Emily Kolominskaya, Chemist 12/28/21

CK06455, CK06456, CK06457, CK06458, CK06459, CK06460

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 606256 (CK06297)

CK06455, CK06456, CK06457, CK06458, CK06459, CK06460

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 607330 (CK10719)

CK06458, CK06459, CK06460

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%.

PCB Narration

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

Instrument:

AU-ECD1 12/29/21-1 Saadia Chudary, Chemist 12/29/21

CK06455 (5X), CK06459 (5X)

The initial calibration (PC1201AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1201BI) 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: CK06455, CK06459
Preceding CC D29A003 - None.
Succeeding CC D29A020 - PCB 1016 35%H (%)
Samples: CK06455, CK06459
Preceding CC D29B003 - None.
Succeeding CC D29B020 - PCB 1016 33%H (%)

AU-ECD29 12/29/21-1 Saadia Chudary, Chemist 12/29/21

CK06457 (5X), CK06460 (5X)

The initial calibration (PC1022AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1022BI) RSD for the compound list was less than 20% except for the following compounds: None.

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SDG I.D.: GCK06455

PCB Narration

The continuing calibration %D for the compound list was less than 15% except for the following compounds:
Samples: CK06457, CK06460
Preceding CC D29B008 - None.
Succeeding CC D29B018 - DCBP SURR 27%H (15%)

AU-ECD3 12/29/21-1 Saadia Chudary, Chemist 12/29/21

CK06456 (5X), CK06458 (5X)

The initial calibration (PC1129AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1129BI) 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: CK06456, CK06458
Preceding CC D29B004 - None.
Succeeding CC D29B015 - DCBP SURR -47%L (15%), PCB 1016 -46%L (%), PCB 1260 -52%L (%), TCMX SURR -57%L (15%)

QC (Batch Specific):

Batch 606255 (CK05913)

CK06455, CK06456, CK06457, CK06458, CK06459, CK06460

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.

PEST Narration

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

QC Batch 606227 (Samples: CK06455, CK06456, CK06457, CK06458, CK06459, CK06460): -----

The LCS/LCSD RPD exceeds the method criteria for one analyte, but this analyte was not reported in the sample(s). No significant variability is suspected. (d-BHC)

QC Batch 606469 (Samples: CK06460): -----

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (4,4'' -DDD, 4,4'' -DDE, b-BHC, Endosulfan II, Methoxychlor)

The LCS/LCSD RPD exceeds the method criteria for one surrogate. The RPD for the target analytes is acceptable. No significant variability is suspected. (% DCBP)

Instrument:

AU-ECD35 01/04/22-1 Adam Werner, Chemist 01/04/22

CK06455 (1X), CK06456 (1X), CK06457 (1X)

The initial calibration (PS0103AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0103BI) 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: CK06455, CK06456, CK06457
Preceding CC 104B004 - Endosulfan II -30%L (20%)

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RCP Certification Report

January 10, 2022

SDG I.D.: GCK06455

PEST Narration

Succeeding CC 104B014 - Endosulfan II -24%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.

AU-ECD4 01/04/22-1 Adam Werner, Chemist 01/04/22

CK06458 (1X), CK06459 (1X)

The initial calibration (PS1220AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS1220BI) 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: CK06458, CK06459
Preceding CC 104B004 - b-BHC 54%H (20%)
Succeeding CC 104B017 - None.

AU-ECD4 12/29/21-1 Adam Werner, Chemist 12/29/21

CK06458 (2X), CK06459 (2X), CK06460 (2X)

The initial calibration (PS1220AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS1220BI) 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: CK06458, CK06459, CK06460
Preceding CC D29B004 - d-BHC 27%H (20%)
Succeeding CC D29B017 - % DCBP -22%L (20%)

AU-ECD7 12/29/21-1 Adam Werner, Chemist 12/29/21

CK06455 (2X), CK06456 (2X), CK06457 (2X)

The initial calibration (PS1215AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS1215BI) 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: CK06455, CK06456, CK06457
Preceding CC D29B004 - b-BHC 22%H (20%), Endosulfan II -21%L (20%)
Succeeding CC D29B016 - None.
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.

AU-ECD7 12/30/21-1 Adam Werner, Chemist 12/30/21

CK06460 (1X)

The initial calibration (PS1215AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS1215BI) 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: CK06460
Preceding CC D30B004 - Endosulfan II -26%L (20%)
Succeeding CC D30B021 - % DCBP -21%L (20%)
A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance

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RCP Certification Report

January 10, 2022

SDG I.D.: GCK06455

PEST Narration

criteria. All reported samples were ND for the affected compounds.

QC (Batch Specific):

Batch 606227 (CK05643)

CK06455, CK06456, CK06457, CK06458, CK06459, CK06460

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: d-BHC(34.9%)

Batch 606469 (CK05884)

CK06460

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: b-BHC(25.4%), Endosulfan I(33.1%), Endrin aldehyde(53.2%)

Batch 606818 (CK06455)

CK06455, CK06456, CK06457, CK06458, CK06459

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: % DCBP (Confirmation)(63.4%), % TCMX(29.9%), % TCMX (Confirmation)(51.9%), a-BHC(30.0%), d-BHC(25.2%), g-BHC(37.9%)
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? Yes.

Instrument:

CHEM06 12/28/21-2 Matt Richard, Chemist 12/28/21

CK06455 (1X), CK06456 (1X), CK06457 (1X), CK06458 (1X), CK06459 (1X), CK06460 (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 (CHEM06/6_BN_1212):
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 (CHEM06/1228_32-6_BN_1212):
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.

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RCP Certification Report

January 10, 2022

SDG I.D.: GCK06455

SVOA Narration

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

QC (Batch Specific):

Batch 606258 (CK05368)

CK06455, CK06456, CK06457, CK06458, CK06459, CK06460

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 1.9C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 1.0 °C Pg 1 of

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: On File

Customer: Tighe & Bond
Address: 213 Court Street Suite 1100
Middletown, CT 06457

Project: Burr Elementary School
Report to: Brian S + Jill C
Invoice to: Tighe & Bond
QUOTE # DAS Rates

Project P.O: 150439 BES

This section MUST be completed with Bottle Quantities.

Client Sampler - Information - Identification

Sampler's Signature: [signature] Date: 12.28.21

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
060455	BES-301B(0.5)	Soil	12.28.21	1155
060456	BES-302B(0.5)			1200
060457	BES-303S(0.0-0.5)			1205
060458	BES-304S(0.0-0.5)			1210
060459	BES-305S(0.0-0.5)			1215
060460	BES-306S(0.0-0.5)			1220

Analysis columns: PCBs (Soxlet), ETPH, PAH, Pesticides, Arsenic, Lead, MS/MSD*, GL Amber 8 oz. w/H3PO4, Soil VOA Vials [ ] methanol [ ] H2O, GL Soil container (8) oz, GL Soil container ( ) oz, 40 ml VOA Vial [ ] As is [ ] HCL, GL Amber 1000ml [ ] As is [ ] H2SO4, PL As is [ ] 250ml [ ] 1000ml, PL H2SO4 [ ] 250ml [ ] 500ml, PL HNO3 250ml, PL NaOH 250ml, Bacteria Bottle w/thio, Bacteria Bottle as is

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	12.28.21	1541

Comments, Special Requirements or Regulations:
PCBs RL > 0.4 mg/kg

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

Turnaround Time:
[X] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[ ] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] (Residential) Direct Exposure
[ ] (Comm/Industrial) Direct Exposure
[ ] GA Leachability
[ ] GB Leachability
[ ] GA-GW Objectives
[ ] GB-GW Objectives

CT
[X] RCP Cert
[ ] GW Protection
[ ] SW Protection
[X] GA Mobility
[ ] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2 [ ] S-1 10% CALC
[ ] 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

State where samples were collected: CT

Data Format
[X] Excel
[ ] PDF
[ ] GIS/Key
[ ] EQuIS
[X] Other Enviro Data

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[ ] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

PEL-126 REV. 06/20

Sarah Bell

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Wednesday, December 29, 2021 2:56 PM
To: Sarah Bell
Cc: Brian Sirowich; Jill L. Libby
Subject: Lab Report GCK06455 Sample Activation

Hi Sarah,
Can you please activate the following sample for SPLP pesticides, quickest TAT:

Lab ID: GCK06455
Sample ID: CK06460 (BES-306S (0.0-0.5'))

Thanks,

Mark

Mark E. Paulsson
Project Environmental Scientist

Tighe&Bond

o. 203.712.1106 | m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484
w: tighebond.com | halvorsondesign.com

Sarah Bell

Subject: FW: Burr
Attachments: GCK06455-Analytical-Report.pdf

Added SPLP Pests to samples per Brian Sirowich

From: Brian Sirowich [mailto:BSirowich@TigheBond.com]
Sent: Monday, January 03, 2022 12:51 PM
To: Sarah Bell; Jill L. Libby
Subject: RE: Burr

Hi Sarah – Did you run SPLP Pesticides on these samples as well? If not can you please add

Sarah Bell

From: Jill L. Libby <JLLibby@tigheBond.com>
Sent: Thursday, January 06, 2022 11:22 AM
To: Sarah Bell
Cc: Brian Sirowich
Subject: BUR SPLP Metals

Sarah,
Could I please submit the following samples for 24TAT?
SPLP Lead

BES-305S	CK06459
BES-306S	CK06460

SPLP Arsenic

BES-306S	CK06460
BES-304S	CK06458

Jill Libby *(she/her/hers)*
Project Environmental Scientist II

Tighe&Bond

o. 781.708.9828 | m. 315.436.8260

One University Avenue, Suite 100, Westwood, MA 02090
w: tighebond.com | halvorsondesign.com

Tighe&Bond

APPENDIX F

Clean Earth of Connecticut
58 North Washington Street
Plainville, CT 06062
Ph: Fax:

Ticket: 2696350

	Date	Time	Scale
In:	01/05/2022	14:17:56	CECT
Out:	01/05/2022	14:17:56	CECT

Manifest: 1878240
Vehicle: 60436a
Decal:

	Lbs.	Tns
Gross:	67,040	33.52
Tare:	37,920	18.96
Net:	29,120	14.56

Customer: Cisco LLC
Generator: Town of Fairfield
Address: 725 Old Post Road
FAIRFIELD, CT 06824

Carrier:
Profile #: 214072186
Job: Burr Elementary School
Address: 1960 Burr Street
FAIRFIELD, CT 06824

Material

Recyclable soil/rock/material

Comment:

Driver

Facility Clean Earth of Connecticut
Mark Tran

CLEANEARTH

NON-RCRA HAZARDOUS WASTE MANIFEST

1878240

1. GENERATOR'S NAME AND MAILING ADDRESS
Town of Fairfield
725 Old Post Road
Fairfield CT 06824

GENERATOR'S SITE ADDRESS
Burr Elementary School
1960 Burr Street
Fairfield CT 06824

2. GENERATOR'S PHONE 203-256-3010

3. TRANSPORTER 1 COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER 1'S PHONE	TRANSPORTER'S PLATE NUMBER
Cisco Environmental, LLC	NOT APPLICABLE	(203 752-2558	60436-4
5. TRANSPORTER 2 COMPANY NAME	6. US EPA ID NUMBER	B. TRANSPORTER 2'S PHONE	TRANSPORTER'S PLATE NUMBER
XXXXXXXXXXXXXXXXXXXX	NOT APPLICABLE	(000 000-0000	

7. DESIGNATED FACILITY NAME AND SITE ADDRESS	8. MAILING ADDRESS	C. FACILITY'S PHONE
CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	(860) 747-8888

9. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID NUMBER	10. CONTAINERS NO.	10. CONTAINERS TYPE	11. TOTAL QUANTITY	12. UNIT WT/VOL
a. CONNECTICUT REGULATED WASTE SOLID, NONE, NONE Approval: 214072186 Global/Job #:1007650	001	DT	00020	T
b.				
c.				

D. ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE	E. HANDLING CODES FOR WASTES LISTED ABOVE
SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS	INTERIM: SO2 FINAL: T57

13. SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

14. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport by highway according to applicable national governmental regulations, and all applicable State of Connecticut laws and regulation. I certify that this material neither contains polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor has been mixed in anyway with PCB's in concentrations greater than or equal to 50 ppm. I certify that the material listed above contained no free liquids at the time of loading.

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
John Marsilio		12	23	21

15. TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
James Minicucci		1	5	22

16. TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR

17. DISCREPANCY INDICATION SPACE

11(a) CORRECTED WEIGHT AS SCALED 14.56 TON'S

18. FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF WASTE MATERIALS COVERED BY THIS MANIFEST EXCEPT AS NOTED IN ITEM 13.

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Mark		1	5	22

FACILITY

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