Gary Trombly, Jr.
Department of Energy and Environmental Protection
Storage Tank and PCB Enforcement Unit
79 Elm Street
Hartford, Connecticut 06106

Re: Partial Consent Order #COWSPCB 15-001
English Station Remediation
Scope of Study Situation #3, Supplemental to CT DEEP Approved Scope of Study July 2017

Dear Messrs. Trombly:

The United Illuminating Company is pleased to submit a Scope of Study for Situation #3. The Scope of Study for Situation #3 is a supplemental document to the approved Scope of Study, dated July 2017. The essence of this Scope of Study focuses on a tunnel identified during the demolition of Station B along the southeastern portion of the building and ultimately connecting with the Cooling Water Tunnel, identified as Area of Concern 14.

In accordance with Section B., 13 of the PCO, the undersigned have personally examined and are familiar with the information submitted in this document and all attachments thereto, and do certify, based on reasonable investigation, including their inquiry of those individuals responsible for obtaining the information, that the submitted information is true, accurate and complete to the best of their knowledge and belief. They 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.

Should you have any questions or comments regarding this document or any attachments hereto, please don't hesitate to contact Shawn Crosbie at (203) 926-4595.

THE UNITED ILLUMINATING COMPANY

David G. LaBelle
David LaBelle
Vice President Environmental, Health & Safety
Avangrid

Shawn C Crosbie
Project Manager
The United Illuminating Company

SCOPE OF STUDY

Supplemental to Approved Scope of Study, July 2017

Situation No. 3 – Station B South Tunnel Investigation

ENGLISH STATION FACILITY
510A GRAND AVENUE
NEW HAVEN, CONNECTICUT

Prepared for:

The United Illuminating Company

180 Marsh Hill Road

Orange, Connecticut

Prepared by

Windsor, Connecticut

February 2020

SCOPE OF STUDY

Supplemental to Approved Scope of Study, July 2017

SITUATION NO. 3 – STATION B SOUTH TUNNEL INVESTIGATION

ENGLISH STATION FACILITY
510A GRAND AVENUE
NEW HAVEN, CONNECTICUT

Prepared for

The United Illuminating Company
180 Marsh Road
Orange, Connecticut

TRC Project No. 263951

February 2020

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Acronym/Abbreviation List

AEI	Advanced Environmental Interface, Inc.
AOC	Area of Concern
ASTM	American Society for Testing and Materials
CFC	Chlorofluorocarbon
CHMM	Certified Hazardous Materials Manager
cm	Centimeter
cm/sec	Centimeters per second

COC	Contaminant of concern
CSM	Conceptual site model
CT DEEP	Connecticut Department of Energy and Environmental Protection
CT DPH	Connecticut Department of Health
DEC	Residential Direct Exposure Criteria
DQA	Data Quality Assessment
DQO	Data Quality Objectives
DUE	Data Usability Evaluation
ECAF	Environmental Condition Assessment Form
ELLAP	Environmental Lead Laboratory Accreditation Program
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
ETPH	Extractable total petroleum hydrocarbons
ftbgs	Feet below ground surface
GEI	GEI Consultants, Inc.
gr	Gravimetric reduction
GWPC	Groundwater protection criteria
HPLC	High performance liquid chromatography
HRP	HRP Associates, Inc.
I/C	Industrial/Commercial
LCS	Laboratory control sample
ID	Identifier
IDW	Investigation-derived waste
LEP	Licensed Environmental Professional
LF	Lineal feet
MDL	Minimum detection limit
mg/cm^2	Milligrams per square centimeter
mg/kg	Milligrams per kilogram
MS	Matrix spike
MSD	Matrix spike duplicate
NAPL	Non-aqueous phase liquids
NTU	Nephelometric turbidity unit
NVLAP	National Voluntary Laboratory Accreditation Program
PAH	Polycyclic aromatic hydrocarbons
PCB	Polychlorinated biphenyl
PCO	Partial Consent Order
PID	Photoionization detector
PMC	Pollutant Mobility Criteria
PPE	Personal protective equipment
ppm	Parts per million
QA/QC	Quality Assurance/Quality Control
%R	Percent recovery
RAP	Remedial Action Plan
RCP	Reasonable Confidence Protocols
RCRA	Resource Conservation and Recovery Act
RCSA	Regulations of Connecticut State Agencies

RES	Residential
RL	Reporting limit
RPD	Relative percent difference
RSR	Remediation Standard Regulations
SOP	Standard Operating Procedure
SOS	Scope of Study
SPLP	Synthetic precipitation leachate procedure
SVOC	Semi-volatile organic compound
SWPC	Surface Water Protection Criteria
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total petroleum hydrocarbon
TRC	TRC Environmental Corporation
UI	The United Illuminating Company
USDOT	U.S. Department of Transportation
VC	Volatilization Criteria
VOC	Volatile organic compound
W&S	Weston & Sampson

1.1 Overview

TRC Environmental Corporation (TRC) has been retained by The United Illuminating Company (UI) to provide Licensed Environmental Professional (LEP) services as they relate to adherence to and completion of all tasks outlined in Partial Consent Order (PCO) COWSPCB 15-001, including the preparation of this Situation #3 Supplemental to Scope of Study approved July 2017 (Situation #3 SOS). TRC previously prepared a Scope of Study document that covered the site wide investigation of soil, sediment, surface water and concrete that is entitled *"Scope of Study (SOS), English Station"* revised July 2017, which was reviewed and approved by the Connecticut Department of Energy and Environmental Protection (CT DEEP). Subsequent to approval of the July 2017 SOS, Weston and Sampson (W&S) performed the investigation required under that SOS. Two reports covering those investigations entitled *"North Side Investigation Summary Report"* dated January 2018 and *"South Side Investigation Summary Report"* dated February 2018 were submitted to the CT DEEP. Within the July 2017 SOS and the two investigation reports the cooling water discharge tunnel ("the Tunnel") associated with Station B on Parcel A is defined as Area of Concern (AOC)-14. At the time of preparing the July 2017 SOS and the two investigation reports the available site drawings represented the Tunnel as being located outside the footprint of Station B to the south and running south and southeast across the former coal storage area within Parcel A. Figure No. 1 attached to this Situation #3 SOS shows the location of the Tunnel in proximity to Station B that was known at that time and sampled by W&S in 2017. Since W&S sampling did not involve entering the Tunnel and the sampling was from the surface through 6-inch diameter cored holes through the roof, the limits of the Tunnel remained as originally depicted. It is only following the complete demolition of Station B through the fall of 2019, that an additional portion of the tunnel was found beneath the south-southeast side of the basement inside Station B. A portion of the Tunnel roof as shown on Figure No. 1, collapsed and building demolition debris fell into the Tunnel. The opening approximately 20 feet long exposed enough of this section of the Tunnel to determine that it runs east-west inside the building footprint along the south wall and that it connects to another tunnel also running east-west just outside the building footprint.

Following the collapse of the Tunnel roof within the footprint of Station B as shown on Figure No. 1, the CT DEEP was notified by UI on January 14, 2020. A description of the materials inside of the tunnel and photographs were sent to the CT DEEP via email. The CT DEEP responded via email with a request that the black liquid, the bottom solids (*identified as the "rocky area"*) and the black stained Tunnel side wall be sampled. The Tunnel side wall was requested to be a wipe sample for PCB. The water and solid samples were collected by TRC on January 15, 2020 and submitted to Con-Test Laboratories of East Longmeadow, Massachusetts for the following analysis:

- Volatile Organic Compounds (VOCs) – EPA Method 8260
- Semi-Volatile Organic Compounds (SVOCs) – EPA Method 8270
- RCRA 8 Metals – EPA Method 6020 & 7470
- Polychlorinated Biphenyls (PCBs) – EPA Method 8082 with Soxhlet Extraction
- Extractable Total Petroleum Hydrocarbons (ETPH) – CT DEEP Method
- % Solids – SM 2540G (Sediment Only)

The results of the above testing were furnished to the CT DEEP via e-mail on January 22, 2020. The test results for the sediment exhibit a total PCB concentration of 1.4 mg/kg. A subsequent call with Lori Saliby and Gary Trombly of the CT DEEP on January 22, 2020, prompted a decision by CT DEEP to require further delineation and testing of the Tunnel and its contents within. During that call it was determined to name this new finding as Situation #3 for ease of tracking. This Situation #3 SOS is therefore prepared in response to the CT DEEP request.

On February 4, 2020 UI notified CT DEEP of its intentions to remove the roof of the tunnel to understand its dimensions and provide the Department with a comprehensive sampling plan. Based on current activities to close out the Station B demo work ACV, UI's onsite demo and remediation contractor did not start removing the roof of the Tunnel until February 12, 2020. ACV completed the removal of the roof Tunnel on February 13, 2020.

As the Respondent, UI has committed to conducting the investigation and remediation of the Site in accordance with the provisions of the PCO. Since the Parcel A PCB Remedial Action Plan (RAP) has been approved by the EPA and in concept with the CT DEEP, it is anticipated that any additional remedial actions based on analytical results exceeding the

remedial criterion for Parcel A of 1 mg/kg required for the Tunnel will be implemented as an amendment (modification) to the existing RAP approval. All media exceeding the High Occupancy Standards under 40 CFR 761 for PCBs in this section of Parcel A are the required to be addressed. The general requirements of the PCO that will be followed for Situation #3 include:

- Development of a supplemental SOS;
- Implement the Situation #3 SOS once approved by the CT DEEP;
- Develop and submit for review and approval by the CT DEEP a Supplemental Investigation Report that fully describes the investigatory activities conducted, evaluates the results of analyses conducted for all sample media as identified in the PCO,;
- Amend existing plans and specifications for the approved remedial actions,
- Implement the CTDEEP-approved remedial actions;
- Prepare a report describing, in detail, the remedial actions performed at the Site and the proposed monitoring program designed to determine the effectiveness of the remediation; and
- Implement and document the results of the post-remediation monitoring activities.

1.2 Objectives

The primary objective of this Situation #3 SOS document is to provide a framework for investigation/characterization of the Tunnel as depicted on Figure No.1, allowing for the fulfillment of the obligations of the PCO. Specifically, the SOS objectives as they relate to environmental media (concrete tunnel floor, water and sediment located within the Tunnel, as shown on Figure No. 1) include:

- Identifying the existing and potential extent and degree of contamination (defining the three-dimensional extent and distribution of substances associated with each release) while complying with all prevailing standards and guidelines (including, but not limited to Connecticut's Site Characterization Guidance Document (CT DEEP, 2010a).
- Identify non-hazardous and hazardous wastes at the Site.

These objectives will be accomplished by presenting within this document the following:

- A thorough summary of previous investigation and remediation efforts undertaken at the Site; and
- A proposed sampling and analytical program for all environmental media as defined above.

1.3 Relevant Past Report Summaries

This section summarizes information from past site investigation reports that have relevant information concerning the Tunnel (AOC-14).

1.3.1 2005 *Interim PCB Report for Station B Parcel Sale,* AEI (AEI, 2005)

In 2005 AEI issued an interim report summarizing work completed on what is now identified as the "Parcel A" portion of the Site. The purpose for issuing the interim report was to provide a summary of all PCB-related work completed for the northern portion of the Site, in advance of the subdivision and sale of that portion of the Site.

PCBs were detected in sediment in a catch basin identified by AEI as "CB-2," located in the central portion of the former coal yard. Additionally, PCBs were also detected in soil in a small area to the southeast of CB-2. Concentrations of PCBs in both areas were below 10 mg/kg. The report notes that catch basins CB-1 and CB-2 tie into a cooling water discharge tunnel that runs from Station B to an unidentified termination point on the southern portion of the Site. According to the report, the tunnel is approximately 3 feet tall and 4 feet wide and is buried approximately 1 foot below grade. AEI reported that the tunnel is sealed off at both ends and no outfall to the Mill River.

1.3.2 2015 *Draft Section 4 Subsurface Investigation for the Former English Station,* HRP (HRP, 2015)

In 2015, HRP completed a subsurface investigation on behalf of UI to characterize the distribution of soil and groundwater contamination in the vicinity of select AOCs identified for the Site. The subsurface investigation was completed in accordance with a Generalized Scope of Work Plan submitted to the CTDEEP in February 2014. The investigation activities were completed to provide a preliminary evaluation of the distribution of contamination in select AOCs and were not meant to fully characterize the Site.

HRP collected a single sediment sample (identified as DT-111914-1) from the former cooling water discharge tunnel near the eastern terminus of the tunnel. Laboratory analytical

results on sediment sample DT-111914-1 indicated that it contained PCBs at a concentration of 1.78 mg/kg.

1.3.3 2018 *W&S North Side Summary Report* (W&S, 2018)

AOC-14 Cooling Water Tunnel

The W&S North Side Summary Report defines AOC-14 as the former cooling water discharge tunnel which is located within the North Side of the Site on Parcel A. The W&S report refers to historical plans which indicate that this former cooling water discharge tunnel ran from the south side of Station B on Parcel A, through the former coal yard, and to an unidentified discharge point at a location along the eastern side of the Site. The cooling water tunnel was reported to be sealed off at both ends and no longer discharging to the Mill River. Two catch basins, identified as CB-1 and CB-2, located within the former coal yard, were reported to discharge into the Tunnel.

The Conceptual Site Model in SOS approved in July 2017 indicates PCBs, ETPH and PAHs are potential contaminants of concern for AOC-14. Potential release mechanisms to the tunnel are identified as impacts from storm water run-off from catch basins connected to the tunnel, and/or potential infiltration through the concrete of the discharge tunnel or to cracks, seams or joints in the tunnel.

Weston & Sampson performed sampling of concrete and sediment within the cooling tunnel as part of the investigation. Prior to sampling the tunnel the following activities were performed:

- The tunnel was confirmed to extend along the southwestern face of Station B approximately 70 feet. Investigation performed during the sampling found that all inlets/outlets to the tunnel had been filled and there was no apparent flow of water into or out of the tunnel.
- The tunnel extends to the south and then turns to the southeast and extends beneath those areas designated as AOC-12W and AOC 12E. The construction of the tunnel was similar along this extent and was approximately 3 feet tall and 4 feet wide.

- Catch basins designated as CB-1 and CB-2 were confirmed to be constructed directly over the tunnel.
- Beyond the former coal bins, the tunnel extends to the north beneath the paved driveway, toward the east gate entrance east of Station B. At the northernmost extent of this section of tunnel, concrete was not found at the base and therefore only sediment samples were collected at this location. All inlets/outlets to the tunnel at the northernmost extent had been previously sealed and there was no flow of water into or out of the tunnel to the Mill River.
- The tunnel also extends to the south to near the foundation for an electrical transmission tower. The tunnel widened widens to approximately 4 feet tall and 4 feet wide at the southern extent. The foundation and other materials filled the inlet/outlet at this end of the structure and no flow of water into or out of the tunnel was observed.
- The tunnel was found to be flooded at the time of the investigation. However, the only inflow of water into the tunnel observed was storm water which would enter at the two catch basins.

W&S collected samples of porous media (concrete and wood (1 sample)) and sediment. Refer to the figures included in Appendix B for the tunnel layout and sample locations from the W&S North Side Summary Report A total of 71 locations (AOC 14 - 1 through 71) were planned to be taken sampled at 10-foot intervals throughout the length of the tunnel. At the following locations, samples could not be collected from the following locations for the following reasons:

- Locations 9 through 11: Portions of the tunnel were collapsed, and concrete and sediment samples could not be collected.
- Locations 49 and 50: Sediment was not found and therefore not sampled. At location 49 wood was found and sampled but no concrete present to sample.
- Locations 12, 14, 16, 17, 19 through 25, and 42: Tunnel had clay- like floor and concrete samples were not collected.
- Locations 27, 28, 31, and 35: Concrete sample locations could not be accessed due to obstructions found in the bottom of the tunnel.

In total, 51 concrete samples, 1 wood sample and 66 sediment samples were collected from the bottom of the cooling tunnel and submitted for PCB analysis. Ten (10) selected sediment samples were also submitted for ETPH and PAH analysis. Analysis identified the following:

Porous Media Samples:

- PCBs were detected at only four sample locations at concentrations below applicable remedial criteria.

Sediment Samples:

- PCBs were detected above laboratory detection limits in 61 of the samples. Total PCBs were detected above 1 mg/kg in 32 of the samples. There were no samples with detections of PCBs that exceeded 10 mg/kg.
- ETPH was detected above laboratory reporting limits in each sample submitted for analysis. Of the detections, only four locations (AOC14-SE-1 through 4) exhibited ETPH concentrations in exceedance of IC/DEC and GB PMC remedial criteria of 2,500 mg/kg.
- PAHs were detected in each sample submitted for analysis. Of the detections, nine sample locations (AOC-14-SE-1 through 8 and 63) exhibited PAH concentrations in exceedance of 1 mg/kg GB PMC remedial criteria.

W&S concluded that the results of the investigation for AOC-14 Former Cooling Water Discharge Tunnel appear to support the previous CSM for this area regarding impacts to sediments. The lack of impacts identified to concrete indicate that migration of PCBs into the concrete has been limited.

W&S concluded that based on the results of the investigation, data appears to be sufficient for assessment purposes. W&S recommended that no additional sampling be performed because all accessible areas of the tunnel have been sampled at 10-foot intervals.

Refer to Appendix B of this Situation #3 SOS for copies of the AOC-14 figures and tables for sediment and porous media sampling laboratory results from the W&S North Side Investigation Report.

1.4 Tunnel Sampling and Testing Program

The collection of sediment and tunnel floor concrete samples will mirror the Tunnel investigations previous performed by W&S and in accordance with all of the sampling and data protocols contained in the previously approved SOS, July 2017. Refer to Figure No. 1 for the location of proposed sediment and tunnel concrete floor sampling, which is based on 10 foot spacing of sample locations along the center of the Tunnel not previously investigated. The sample layout is based on the actual limits of the Tunnel to maintain the 10-foot sample spacing. It is expected that once the Tunnel atmosphere is checked and cleared that the space will be managed as an unpermitted confined space.

All solids within the Tunnel and the concrete floor samples from within the Tunnel will be analyzed for PCBs using EPA Method 8082 with Soxhlet Extraction and submitted to Con-Test Laboratories on a standard turn-around time. There are currently estimated a total of 27 sample locations as shown on Figure No. 1. GPS will be used to provide coordinate locations for all samples collected. For the inside tunnel section and the outside tunnel section one composite solids sample and one composite water sample will be collected for each section of tunnel to provide sufficient data for waste characterization analysis. Each composite sample will be taken by collecting a discrete sample for each location along the entire length of the tunnel and homogenizing into a composite sample. The composite sediment samples will have the following analysis performed:

- Volatile Organic Compounds (VOCs) – EPA Method 8260
- Semi-Volatile Organic Compounds (SVOCs) – EPA Method 8270
- RCRA 8 Metals – EPA Method 6020 & 7470
- Polychlorinated Biphenyls (PCBs) – EPA Method 8082 with Soxhlet Extraction
- Extractable Total Petroleum Hydrocarbons (ETPH) – CT DEEP Method
- Reactive Cyanide – EPA Method 9014
- Reactive Sulfide – EPA Method 9030
- pH – EPA Method 9045
- % Solids – SM 245D
- Free Liquid - EPA Method 9095
- TCLP 8 RCRA Metals – EPA Method 6010 & 7470

The composite water samples will have the following analysis performed:

- Volatile Organic Compounds (VOCs) – EPA Method 8260

- Semi-Volatile Organic Compounds (SVOCs) – EPA Method 8270
- RCRA 8 Metals – EPA Method 6020 & 7470
- Polychlorinated Biphenyls (PCBs) – EPA Method 8082 with Soxhlet Extraction
- Extractable Total Petroleum Hydrocarbons (ETPH) – CT DEEP Method
- Reactive Cyanide – EPA Method 9014
- Reactive Sulfide – EPA Method 9030
- pH – EPA Method 4500(liquid)
- Flashpoint – EPA Method 1010

All composite samples will be submitted to Con-Test Laboratories of East Longmeadow, Massachusetts.

The detailed methodology for sample handling, preservation, labeling, testing, reporting, QA/QC, data validation and waste management listed below that will be followed are covered in the previously approved SOS, July 2017 document referenced in Section 1.0.

<u>Investigation-Derived Waste (IDW) Management</u>

- Decontamination Solutions
- Expendable Equipment

<u>Quality Assurance/Quality Control (QA/QC) Procedures</u>

- Measurement Quality Objectives
  - *Precision*
  - *Accuracy*
  - *Representativeness*
  - *Completeness*
  - *Comparability*
  - *Sensitivity*
  - *Field Quality Control Samples*
  - *Equipment Blanks*
  - *Field Duplicates*
  - *MS/MSDs*
  - *Temperature Blanks*
  - *Trip Blanks*
- Sample Sequence
- Sample Documentation Requirements
  - *Field Notes*

- *Sample Labeling*
- Sample Handling and Shipping
- Sample Custody
  - *Field Custody Procedures*
  - *Laboratory Custody Procedures*
- Field Equipment Decontamination Procedures
- Data Validation and Reporting
  - *Data Reporting*
  - *Field Data Evaluation*
  - *Analytical Data Validation*

The following three sections provide a description of the sampling that will be performed.

1.5 Tunnel Sediment Investigation

1.5.1 DQOs for Sediment & Solids Samples

Data collected during the sediment and solids investigations are intended to evaluate the current contaminant concentrations in sediment and solids for the purpose of ultimately creating a waste management or disposal plan. Sediment and solid samples will be collected from those areas in which sediments are observed. Sediment and solid sample analytical results will be used for waste characterization for waste disposal purposes.

1.5.2 Sediment & Solid Sampling Methodology

Sediment and solid samples will be collected by means of a spade, shovel, trowel or scoop. The sediment and solid sampling device will be chosen based on the depth of water at each specific sampling location. Once the appropriate sampling device is chosen, a sediment or solid sample will be collected from a location that is representative of a sediment or solid depositional area. Sediments and solids will be characterized based on color, grain size, odors and stains. For sediment samples collected for VOC analysis, the sample will be placed directly into the appropriately preserved VOA vials. An aliquot will also be placed in an unpreserved glass container for moisture content analysis. For samples not being analyzed for VOCs, the sample will be transferred from the sampling device into a decontaminated stainless-steel bowl for homogenization. In the bowl, excess water will be decanted using measures that maintain fine sediments and solids within the sample. Once the sample is homogenized, it will be placed

in the appropriate laboratory-provided glassware and placed on ice in a cooler for delivery to the laboratory under proper chain-of-custody protocols.

1.6 Tunnel Water Investigation

1.6.1 DQOs for Water Samples

Data collected during the Tunnel water investigation are intended to evaluate the current contaminant concentrations in water for the purpose of developing a water management plan. Waters are considered to be any ponded, pooled or sitting water that has collected in on-site structures that are able to retain water. Water analytical results will be used for waste characterization for water treatment and disposal purposes.

1.6.2 Water Sampling Methodology

Water samples from within the Tunnel will be collected utilizing a dip sampler or directly into the laboratory-provided container. If not collected directly into the laboratory-provided container, the collected sample will be poured into the appropriate laboratory provided container from the sampling device and placed on ice in a cooler for delivery to the laboratory under proper chain-of-custody protocols.

1.7 Concrete Sampling

1.7.1 Data Quality Objectives for Concrete Sampling

Concrete investigation of concrete tunnel floor surfaces will be conducted as a part of the Situation #3 investigation activities. The purpose of the concrete sampling will be to identify PCB-contaminated areas of concrete. Under the regulations at 40 CFR 761, the concrete at the Site that has been contaminated with PCBs would be considered a PCB remediation waste, as defined at 40 CFR 761.3.

1.7.2 Concrete Sampling Methodology

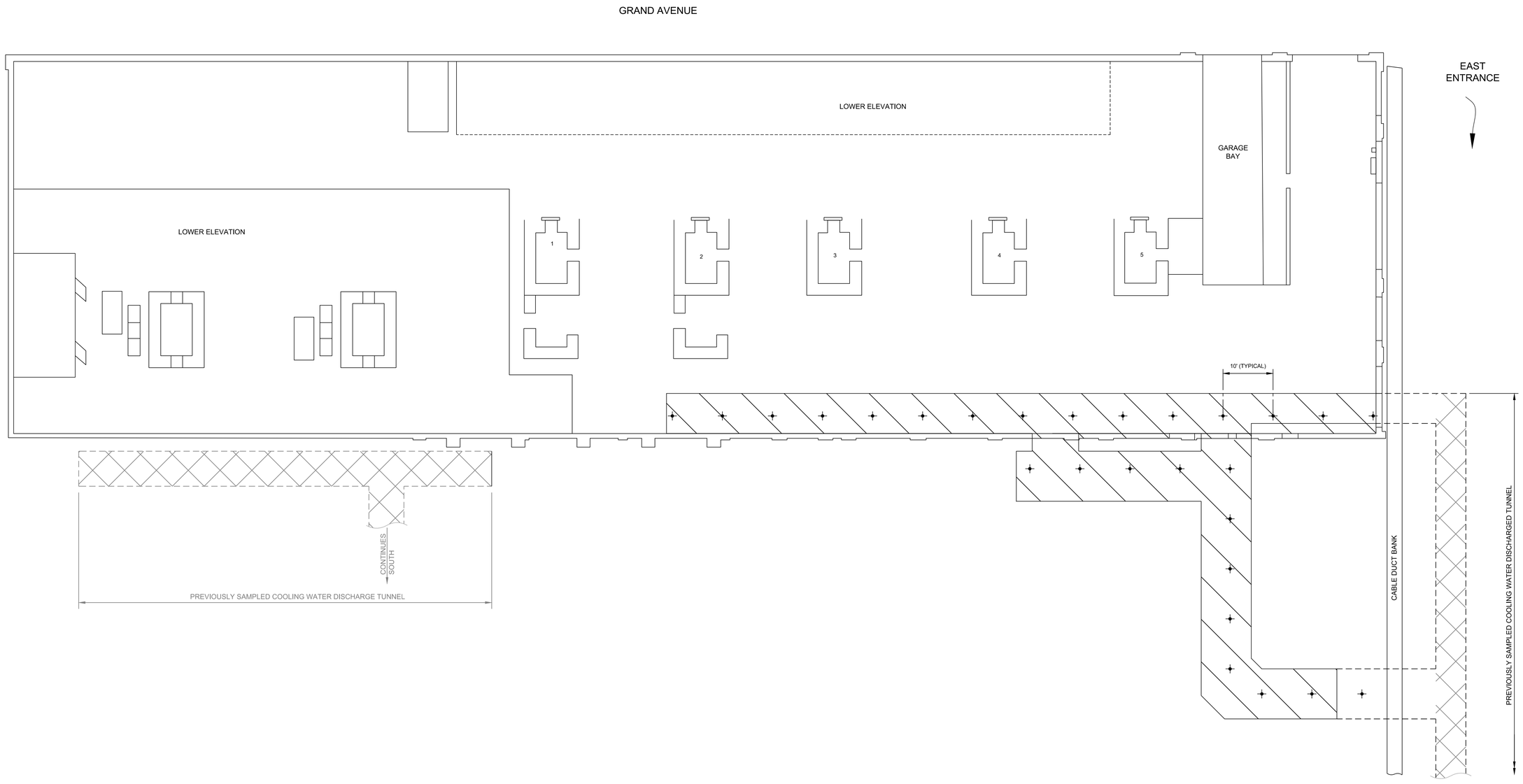
All concrete samples will be collected in accordance with the procedures described in the EPA Region 1 *Standard Operating Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls (PCBs)* (EPA, 2011). Each concrete sample will be collected from the surface of the floor to a depth of 1/2–inch into the floor utilizing a chisel bit to collect pieces of concrete from

this interval. A series of 2 vertical intervals will be collected at each sample location. The concrete chips will then be placed into properly labeled, laboratory-supplied sample jars and placed in a cooler with ice. The laboratory will pulverize and process the chips prior to analysis. The chisel bit will be decontaminated following collection of the concrete chips at each location.

1.8 Summary

The investigation work performed under this Situation #3 Supplemental SOS will complete the process of investigation necessary to delineate the entirety of the AOC-14 tunnel as it is known based upon having exposed the entirety of the tunnel previously unknown. The data collected will supplement the existing investigation data on AOC-14 and allow the development of a modification to the Parcel A PCB Remedial Action Plan (RAP) to address any PCB containing sediment, solids, concrete and water consistent with remedial criteria specified in the Parcel A PCB RAP.

FIGURES



LEGEND

- PREVIOUSLY SAMPLED COOLING WATER DISCHARGE TUNNEL
- TUNNEL ROOF REMOVED
- PROPOSED SEDIMENT & TUNNEL FLOOR CONCRETE SAMPLE LOCATION

N E S W

CT GRID 1983

SOURCE:
MAP TITLED "PLAN PREPARED FOR UNITED ILLUMINATING COMPANY, ENGLISH STATION, NEW HAVEN, CONNECTICUT, BASEMENT LEVEL - STATION B", SCALE: NTS, DATED: JAN. 2000, BY GEI CONSULTANTS, INC.

0 10' 20'
GRAPHIC SCALE

PROJECT:	**UNITED ILLUMINATING** **ENGLISH STATION POWER PLANT** **510 Grand Avenue** **New Haven, Connecticut**
TITLE:	**STATION B BASEMENT LEVEL** **SITUATION #3 - TUNNEL SAMPLING PLAN** **(AOC-14)**
DRAWN BY: R. Hamilton	PROJ. NO.: 263951-000013-000006
CHECKED BY: C. Stopper	**Figure 1**
APPROVED BY:	
DATE: 02/19/2020	

TRC
21 Griffin Road North
Windsor, CT 06095
Phone: 860.298.9692
www.trccompanies.com

FILE NO.: Figure 1 - Station B - 1.dwg

1802

APPENDIX A – PHOTO LOG

Photo 1: South Side of Station B Looking West from the East End

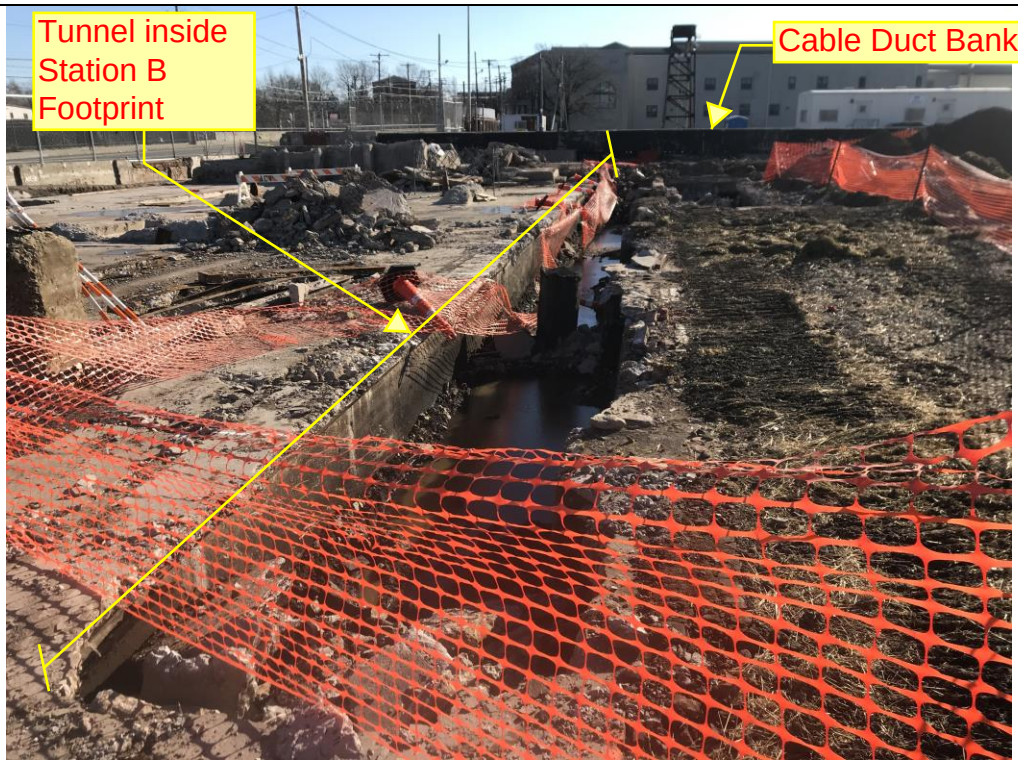


Photo 2: South Side of Station B looking West from West End of the Inside Tunnel

Photo 3: East End Tunnel Section Running South from Station B

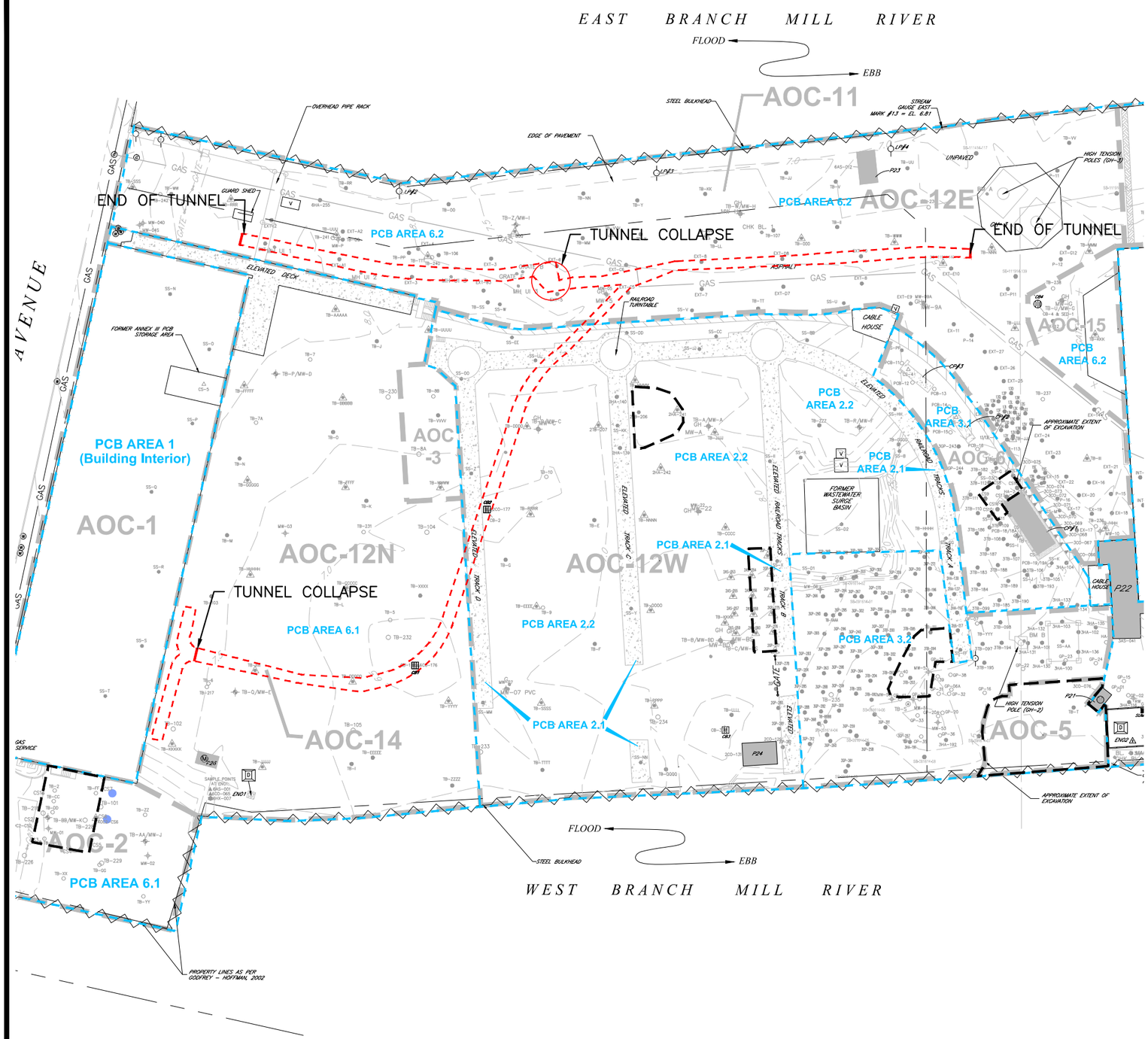
Photo 4: East End Tunnel South of Station B – Looking North toward Station B

Photo 5: East End Tunnel South of Station B looking East under Cable Duct

Photo 6: West End Tunnel South of Station B during 2017 sampling – Looking North toward Station B

Photo 7: West End Tunnel South of Station B during 2017 sampling – West end at Intersection looking West

APPENDIX B – W&S AOC-14 FIGURES & TABLES



LEGEND:

- W&S SEDIMENT/POROUS MEDIA SAMPLE LOCATION. LEFT SIDE REPRESENTS POROUS MEDIA SAMPLE, RIGHT SIDE REPRESENTS SEDIMENT SAMPLE
- CONCRETE/ASPHALT SAMPLE LOCATION
- SEDIMENT SAMPLE LOCATION
- W&S 2017 BORING/SOIL AND POROUS MEDIA SAMPLE
- W&S 2017 BORING/SOIL SAMPLE LOCATION
- APPROXIMATE LIMIT OF COOLING TUNNEL

NOTES:

1. SEE FIGURE 3 FOR NOTES, LEGEND AND LOCATION.
2. SHADED DATA POINTS REPRESENT HISTORICAL SAMPLE POINTS AND/OR SAMPLE LOCATIONS OUTSIDE OF FIGURE'S AOC.
3. SEDIMENT AND CONCRETE SAMPLES WERE COLLECTED THROUGHOUT AOC-14 DEPENDING ON ACCESSIBILITY OF THE MEDIA.

N

60 30 0 60 120

SCALE: 1"=60'

FIGURE 10A

UNITED ILLUMINATING ENGLISH STATION POWER PLANT
510 GRAND AVENUE, NEW HAVEN, CONNECTICUT

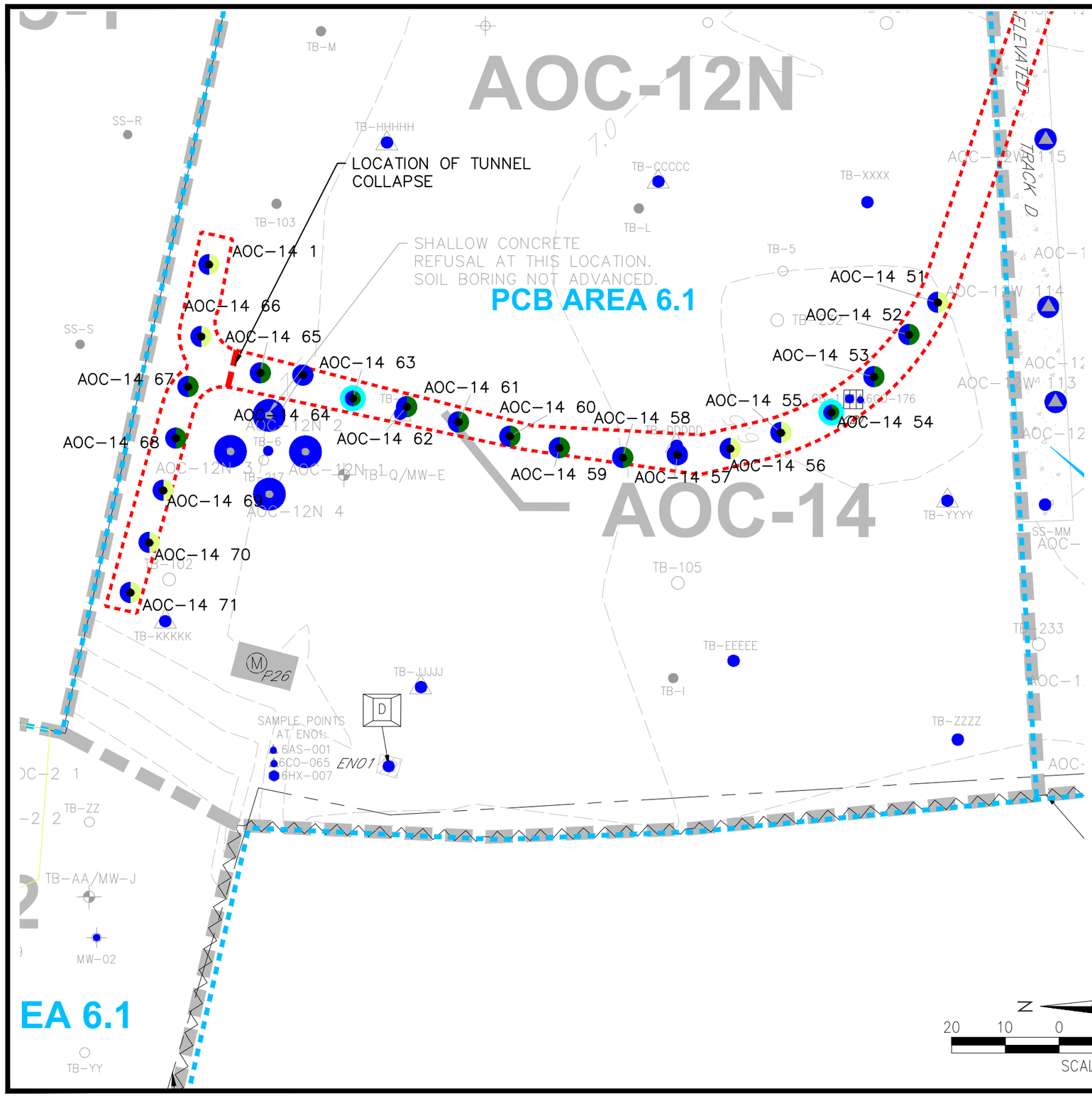
AOC-14 (COOLING TUNNEL) 2017 SAMPLE LOCATIONS

DESIGNED BY: NWA	CHECKED BY: MB	DATE: OCTOBER 2017

Weston & Sampson

1809

\\wse03.local\WSE\Projects\CT_RockyhillOldServer\Avangrid\New Haven\English Station\CAD Files\Updated WSE Formatted Files\Northside Figures (AOCs 2, 12N, 14) REV 11.07.17.dwg



LEGEND:

- W&S SEDIMENT/POROUS MEDIA SAMPLE LOCATION. LEFT SIDE REPRESENTS POROUS MEDIA SAMPLE, RIGHT SIDE REPRESENTS SEDIMENT SAMPLE
- SAMPLE LOCATION WITH NON-DETECT PCB CONCENTRATIONS
- SAMPLE LOCATION WITH PCB CONCENTRATIONS < 1.0 MG/KG
- SAMPLE LOCATION WITH PCB CONCENTRATIONS ≥ 1.0 MG/KG, BUT < 10.0 MG/KG
- HISTORICAL SAMPLE LOCATION WITH TPH/ETPH > I/C DEC
- SAMPLE LOCATION WITH TPH/ETPH < I/C DEC
- SAMPLE LOCATION WITH TPH/ETPH CONCENTRATIONS > I/C DEC
- SAMPLE LOCATION WITH TPH/ETPH CONCENTRATIONS < I/C DEC
- CONCRETE/ASPHALT SAMPLE LOCATION
- SEDIMENT SAMPLE LOCATION
- W&S 2017 BORING/SOIL AND POROUS MEDIA SAMPLE
- W&S 2017 BORING/SOIL SAMPLE LOCATION
- ----- APPROXIMATE LIMIT OF COOLING TUNNEL

NOTES:

1. SEE FIGURE 3 FOR NOTES, LEGEND AND LOCATION.
2. SHADED DATA POINTS REPRESENT HISTORICAL SAMPLE POINTS AND/OR SAMPLE LOCATIONS OUTSIDE OF FIGURE'S AOC.
3. SEDIMENT AND CONCRETE SAMPLES WERE COLLECTED THROUGHOUT AOC-14 DEPENDING ON ACCESSIBILITY OF THE MEDIA.
4. HISTORICAL SAMPLE POINTS WHERE DETECTIONS/ EXCEEDANCES OCCURRED ARE HIGHLIGHTED. NO SAMPLE SYMBOL IS USED.

N

20 10 0 20 40

SCALE: 1"=20'

FIGURE 10B

UNITED ILLUMINATING ENGLISH STATION POWER PLANT
510 GRAND AVENUE, NEW HAVEN, CONNECTICUT

AOC-14 (COOLING TUNNEL) 2017 SAMPLE LOCATIONS: 0-2 FOOT DEPTH

DESIGNED BY: NWA	CHECKED BY: MB	DATE: OCTOBER 2017

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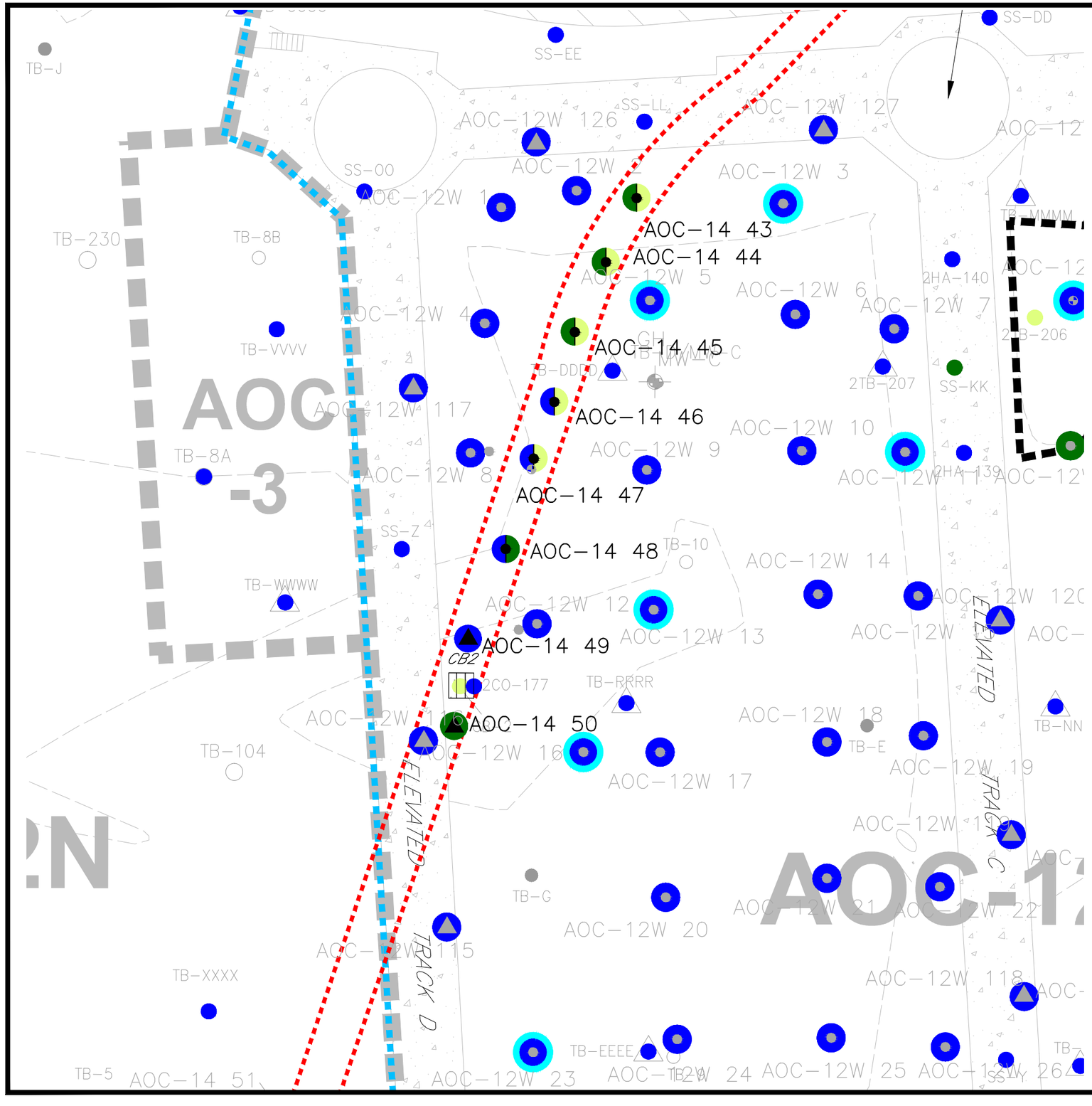

LEGEND:

- W&S SEDIMENT/POROUS MEDIA SAMPLE LOCATION. LEFT SIDE REPRESENTS POROUS MEDIA SAMPLE, RIGHT SIDE REPRESENTS SEDIMENT SAMPLE
- SAMPLE LOCATION WITH NON-DETECT PCB CONCENTRATIONS
- SAMPLE LOCATION WITH PCB CONCENTRATIONS < 1.0 MG/KG
- SAMPLE LOCATION WITH PCB CONCENTRATIONS ≥ 1.0 MG/KG, BUT < 10.0 MG/KG
- SAMPLE LOCATION WITH TPH/ETPH CONCENTRATIONS < I/C DEC
- CONCRETE/ASPHALT SAMPLE LOCATION
- SEDIMENT SAMPLE LOCATION
- W&S 2017 BORING/SOIL AND POROUS MEDIA SAMPLE
- W&S 2017 BORING/SOIL SAMPLE LOCATION
- APPROXIMATE LIMIT OF COOLING TUNNEL

NOTES:

1. SEE FIGURE 3 FOR NOTES, LEGEND AND LOCATION.
2. SHADED DATA POINTS REPRESENT HISTORICAL SAMPLE POINTS AND/OR SAMPLE LOCATIONS OUTSIDE OF FIGURE'S AOC.
3. SEDIMENT AND CONCRETE SAMPLES WERE COLLECTED THROUGHOUT AOC-14 DEPENDING ON ACCESSIBILITY OF THE MEDIA.
4. HISTORICAL SAMPLE POINTS WHERE DETECTIONS/ EXCEEDANCES OCCURRED ARE HIGHLIGHTED. NO SAMPLE SYMBOL IS USED.

N

15 7.5 0 15 30

SCALE: 1"=15'

FIGURE 10C

UNITED ILLUMINATING ENGLISH STATION POWER PLANT
510 GRAND AVENUE, NEW HAVEN, CONNECTICUT

AOC-14 (COOLING TUNNEL) 2017 SAMPLE LOCATIONS: 0-2 FOOT DEPTH

DESIGNED BY: NWA	CHECKED BY: MB	DATE: OCTOBER 2017

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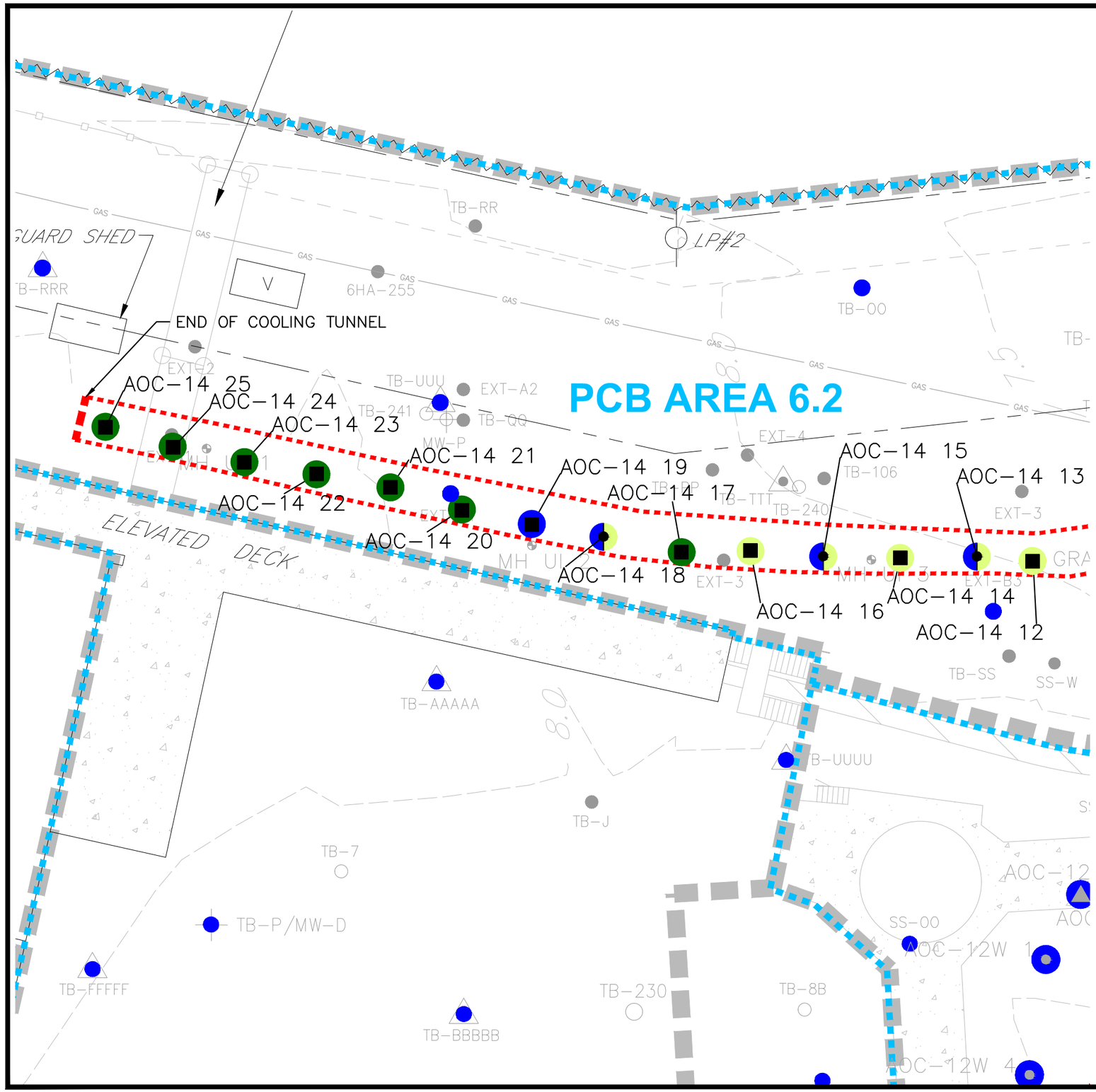

LEGEND:

- W&S SEDIMENT/POROUS MEDIA SAMPLE LOCATION. LEFT SIDE REPRESENTS POROUS MEDIA SAMPLE, RIGHT SIDE REPRESENTS SEDIMENT SAMPLE
- SAMPLE LOCATION WITH NON-DETECT PCB CONCENTRATIONS
- SAMPLE LOCATION WITH PCB CONCENTRATIONS < 1.0 MG/KG
- SAMPLE LOCATION WITH PCB CONCENTRATIONS ≥ 1.0 MG/KG, BUT < 10.0 MG/KG
- CONCRETE/ASPHALT SAMPLE LOCATION
- SEDIMENT SAMPLE LOCATION
- W&S 2017 BORING/SOIL AND POROUS MEDIA SAMPLE
- W&S 2017 BORING/SOIL SAMPLE LOCATION
- APPROXIMATE LIMIT OF COOLING TUNNEL

NOTES:

1. SEE FIGURE 3 FOR NOTES, LEGEND AND LOCATION.
2. SHADED DATA POINTS REPRESENT HISTORICAL SAMPLE POINTS AND/OR SAMPLE LOCATIONS OUTSIDE OF FIGURE'S AOC.
3. SEDIMENT AND CONCRETE SAMPLES WERE COLLECTED THROUGHOUT AOC-14 DEPENDING ON ACCESSIBILITY OF THE MEDIA.
4. HISTORICAL SAMPLE POINTS WHERE DETECTIONS/ EXCEEDANCES OCCURRED ARE HIGHLIGHTED. NO SAMPLE SYMBOL IS USED.

N

15 7.5 0 15 30

SCALE: 1"=15'

FIGURE 10D

UNITED ILLUMINATING ENGLISH STATION POWER PLANT
510 GRAND AVENUE, NEW HAVEN, CONNECTICUT

AOC-14 (COOLING TUNNEL)
2017 SAMPLE LOCATIONS: 0-2 FOOT DEPTH

DESIGNED BY: NWA	CHECKED BY: MB	DATE: OCTOBER 2017

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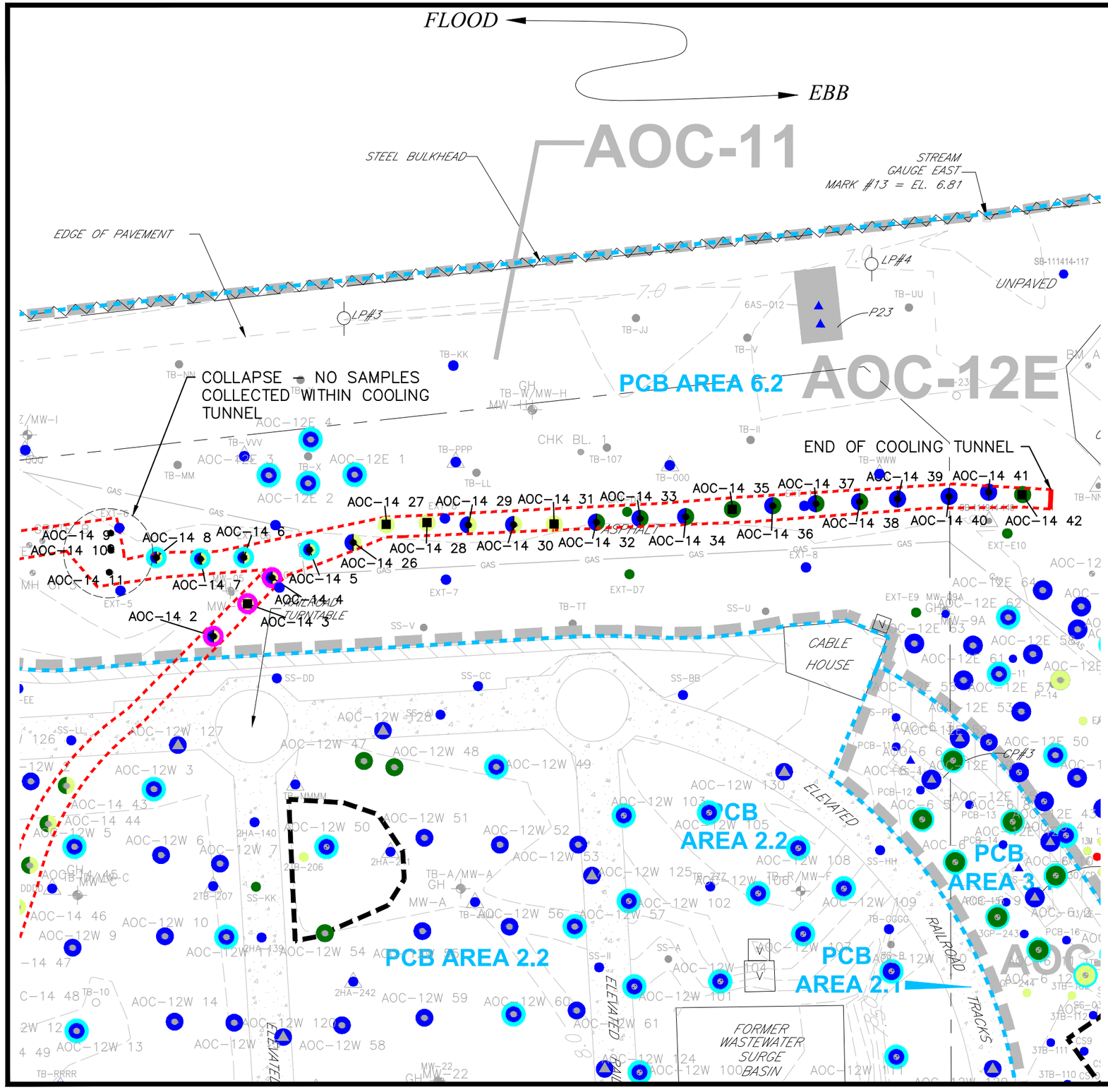

LEGEND:

- W&S SEDIMENT/POROUS MEDIA SAMPLE LOCATION. LEFT SIDE REPRESENTS POROUS MEDIA SAMPLE, RIGHT SIDE REPRESENTS SEDIMENT SAMPLE
- SAMPLE LOCATION WITH NON-DETECT PCB CONCENTRATIONS
- SAMPLE LOCATION WITH PCB CONCENTRATIONS < 1.0 MG/KG
- SAMPLE LOCATION WITH PCB CONCENTRATIONS ≥ 1.0 MG/KG, BUT < 10.0 MG/KG
- SAMPLE LOCATION WITH TPH/ETPH > I/C DEC
- SAMPLE LOCATION WITH TPH/ETPH < I/C DEC
- SAMPLE LOCATION WITH TPH/ETPH CONCENTRATIONS > I/C DEC
- SAMPLE LOCATION WITH TPH/ETPH CONCENTRATIONS < I/C DEC
- CONCRETE/ASPHALT SAMPLE LOCATION
- SEDIMENT SAMPLE LOCATION
- W&S 2017 BORING/SOIL AND POROUS MEDIA SAMPLE
- W&S 2017 BORING/SOIL SAMPLE LOCATION
- APPROXIMATE LIMIT OF COOLING TUNNEL

NOTES:

1. SEE FIGURE 3 FOR NOTES, LEGEND AND LOCATION.
2. SHADED DATA POINTS REPRESENT HISTORICAL SAMPLE POINTS AND/OR SAMPLE LOCATIONS OUTSIDE OF FIGURE'S AOC.
3. SEDIMENT AND CONCRETE SAMPLES WERE COLLECTED THROUGHOUT AOC-14 DEPENDING ON ACCESSIBILITY OF THE MEDIA.
4. HISTORICAL SAMPLE POINTS WHERE DETECTIONS/ EXCEEDANCES OCCURRED ARE HIGHLIGHTED. NO SAMPLE SYMBOL IS USED.

N

25 12.5 0 25 50

SCALE: 1"=25'

FIGURE 10E

UNITED ILLUMINATING ENGLISH STATION POWER PLANT
510 GRAND AVENUE, NEW HAVEN, CONNECTICUT

AOC-14 (COOLING TUNNEL) 2017 SAMPLE LOCATIONS: 0-2 FOOT DEPTH

DESIGNED BY: NWA	CHECKED BY: MB	DATE: OCTOBER 2017

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Table 7
AOC-14 Summary of Sediment and Porous Media Results
English Station Soil and Groundwater Investigation
510 Grand Avenue, New Haven, Connecticut

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS[1]		WS-AOC-14-SED-1	WS-AOC14-CO-1	WS-AOC14-SE-2	WS-AOC14-CO-2	WS-AOC14-SE-3	WS-AOC14-CO-3	WS-AOC14-SE-4	WS-AOC14-CO-4	WS-AOC14-SE-5	WS-AOC14-CO-5	WS-AOC14-SE-6	WS-AOC14-CO-6
SAMPLE DEPTH (ft bgs)				(0-0.5')		(0-0.5')		(0-0.5')		(0-0.5')		(0-0.5')		(0-0.5')
DATE SAMPLED			7/13/2017	9/6/17	8/8/17	8/9/17	8/8/17	8/8/17	8/8/17	8/9/17	8/9/17	8/9/17	8/9/17	8/9/17
WORK ORDER NO.			17G0507	17I0172	17H0394	17H0533	17H0394	17H0394	17H0394	17H0533	17H0533	17H0533	17H0533	17H0533
QA/QC IDENTIFIER	I/C DEC	GB PMC[3]												
PARAMETER (Units)[2]														
Polychlorinated Biphenyls by EPA method 8082 (mg/kg)														
PCB-1248	10	--	**0.6**	<0.094	**0.96**	<0.10	**1.9**	<0.096	**0.93**	<0.094	**0.51**	<0.093	**0.62**	<0.10
PCB-1254	10	--	**0.74**	<0.094	**0.97**	<0.10	**1.7**	<0.096	**1.0**	<0.094	**0.57**	<0.093	**0.83**	<0.10
PCB-1260	10	--	**0.39**	<0.094	**0.64**	<0.10	**0.80**	<0.096	**0.70**	<0.094	**0.24**	<0.093	**0.33**	<0.10
Total PCBs	10	--	**1.73**	<0.094	**2.57**	<0.10	**4.4**	<0.096	**2.63**	<0.094	**1.32**	<0.093	**1.78**	<0.10
SPLP Polychlorinated Biphenyls by EPA method 8082 (µg/l)														
Total PCBs	--	5	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds by EPA method 8270 (mg/kg)														
Acenaphthene*	2,500	84	<0.43	NA	<0.73	NA	<0.65	NA	<0.68	NA	<0.85	NA	<0.84	NA
Acenaphthylene	2,500	84	<0.43	NA	<0.73	NA	<0.65	NA	<0.68	NA	<0.85	NA	<0.84	NA
Anthracene*	2,500	400	**0.63**	NA	<0.73	NA	<0.65	NA	<0.68	NA	<0.85	NA	<0.84	NA
Benzo(a)anthracene	7.8	1	**2.4**	NA	**1.4**	NA	**2.1**	NA	**1.4**	NA	**1.6**	NA	<0.84	NA
Benzo(a)pyrene	1	1	**2.0**	NA	**2.0**	NA	**2.7**	NA	**1.8**	NA	**1.5**	NA	**0.85**	NA
Benzo(b)fluoranthene	7.8	1	**2.9**	NA	**2.6**	NA	**3.8**	NA	**2.4**	NA	**2.5**	NA	**1.2**	NA
Benzo(g,h,i)perylene*	78	1	**1.5**	NA	**1.2**	NA	**1.7**	NA	**1.2**	NA	**0.86**	NA	<0.84	NA
Benzo(k)fluoranthene	78	1	**1.2**	NA	**0.82**	NA	**1.3**	NA	**0.81**	NA	<0.85	NA	<0.84	NA
Chrysene*	780	1	**2.9**	NA	**1.4**	NA	**2.2**	NA	**1.3**	NA	**1.5**	NA	<0.84	NA
Dibenz(a,h)anthracene*	1	1	<0.43	NA	<0.73	NA	<0.65	NA	<0.68	NA	<0.85	NA	<0.84	NA
Fluoranthene	2,500	56	**5.2**	NA	**2.8**	NA	**3.6**	NA	**2.1**	NA	**3.8**	NA	**1.5**	NA
Fluorene	2,500	56	<0.43	NA	<0.73	NA	<0.65	NA	<0.68	NA	<0.85	NA	<0.84	NA
Indeno(1,2,3-cd)pyrene*	7.8	1	**1.4**	NA	<0.73	NA	**1.7**	NA	**1.2**	NA	**0.94**	NA	<0.84	NA
2-Methylnaphthalene*	1,000	5.6	**0.77**	NA	<0.73	NA	<0.65	NA	<0.68	NA	<0.85	NA	<0.84	NA
Naphthalene	2,500	56	**0.82**	NA	<0.73	NA	<0.65	NA	<0.68	NA	<0.85	NA	<0.84	NA
Phenanthrene	2,500	40	**3.5**	NA	**1.4**	NA	**1.8**	NA	**1.0**	NA	**3.4**	NA	<0.84	NA
Pyrene	2,500	40	**5.0**	NA	**4.1**	NA	**5.0**	NA	**3.5**	NA	**3.3**	NA	**1.8**	NA
SPLP Semivolatile Organic Compounds by EPA method 8270 (µg/l)														
Acenaphthene*	NE	4,200	<0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	4,200	<0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene*	NE	20,000	<0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NE	0.6	<0.047	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NE	2	<0.093	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NE	0.8	<0.047	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene*	NE	4.8	<0.47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NE	5	<0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene*	NE	4.8	<0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene*	NE	1	<0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	2,800	<0.47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	2,800	<0.93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene*	NE	1	<0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene*	NE	280	<0.93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NE	2,800	<0.93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NE	2,000	**0.094**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	2,000	<0.93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETPH by CT method (mg/kg)	2,500	2,500	**5700**	NA	**3000**	NA	**3200**	NA	**5700**	NA	**410**	NA	**1900**	NA
SPLP ETPH by CT method (mg/l)	NE	2.50	**0.17**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids (%)	--	--	**39.1**	NA	**23.4**	NA	**26.0**	NA	**25.1**	NA	NA	NA	NA	NA

NOTES:

1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes, refer to laboratory report.
3. The site is located within a GB groundwater area. For comparison to SPLP results for Organics except for PCBs, the GB PMC listed is 10x the GWPC.

* These criteria are available through the submission and approval by CT DEEP of a Request for Approval of Criteria for Additional Polluting Substances and Certain Alternative Criteria Form.

A/B labels indicate smaller subintervals for normal samples.

R = location depth was resampled.
mg/kg = milligrams per kilogram
µg/l = micrograms per liter
< = compound not detected above laboratory reporting limit, shown.
BOLD = compound detected at that concentration.
NA = Not Analyzed
GB PMC = GB Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
NE = Not Established by DEEP
-- = Not Applicable

EXCEEDS I/C DEC
EXCEEDS GB PMC
EXCEEDS I/C DEC AND GB PMC

Table 7
AOC-14 Summary of Sediment and Porous Media Results
English Station Soil and Groundwater Investigation
510 Grand Avenue, New Haven, Connecticut

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS[1]		WS-AOC14-SE-7	WS-AOC14-CO-7	WS-AOC14-SE-8	WS-AOC14-CO-8	WS-AOC14-SE-12	WS-AOC14-SE-13	WS-AOC14-CO-13	WS-AOC14-SE-14	WS-AOC14-SE-15	WS-AOC14-CO-15	WS-AOC14-SE-16	WS-AOC14-SE-17
SAMPLE DEPTH (ft bgs)				(0-0.5')		(0-0.5')			(0-0.5')			(0-0.5')		
DATE SAMPLED			8/9/17	8/9/17	8/9/17	8/9/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17
WORK ORDER NO.			17H0533	17H0533	17H0533	17H0533	17H0617	17H0617	17H0617	17H0617	17H0617	17H0617	17H0617	17H0617
QA/QC IDENTIFIER	I/C DEC	GB PMC[3]												
PARAMETER (Units)[2]														
Polychlorinated Biphenyls by EPA method 8082 (mg/kg)														
PCB-1248	10	--	**0.30**	<0.094	**0.46**	<0.099	**0.94**	**0.86**	<0.10	**0.9**	**0.67**	<0.10	**0.68**	**0.34**
PCB-1254	10	--	**0.42**	<0.094	**0.55**	<0.099	**1.2**	**1.2**	<0.10	**1.2**	**0.78**	<0.10	**0.85**	<0.33
PCB-1260	10	--	**0.29**	<0.094	**0.33**	<0.099	**0.58**	**0.47**	<0.10	**0.38**	**0.39**	<0.10	**0.35**	<0.33
Total PCBs	10	--	**1.01**	<0.094	**1.34**	<0.099	**2.72**	**2.53**	<0.10	**2.48**	**1.84**	<0.10	**1.88**	**0.34**
SPLP Polychlorinated Biphenyls by EPA method 8082 (µg/l)														
Total PCBs	--	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds by EPA method 8270 (mg/kg)														
Acenaphthene*	2,500	84	<0.85	NA	<0.84	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	2,500	84	<0.85	NA	<0.84	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene*	2,500	400	<0.85	NA	<0.84	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	7.8	1	<0.85	NA	**0.97**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	1	**0.94**	NA	**1.2**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	7.8	1	**1.5**	NA	**1.9**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene*	78	1	<0.85	NA	<0.84	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	78	1	<0.85	NA	<0.84	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene*	780	1	<0.85	NA	**1.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene*	1	1	<0.85	NA	<0.84	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,500	56	**1.4**	NA	**2.5**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,500	56	<0.85	NA	<0.84	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene*	7.8	1	<0.85	NA	<0.84	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene*	1,000	5.6	<0.85	NA	<0.84	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	2,500	56	<0.85	NA	<0.84	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	2,500	40	<0.85	NA	**1.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	2,500	40	**1.7**	NA	**2.6**	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Semivolatile Organic Compounds by EPA method 8270 (µg/l)														
Acenaphthene*	NE	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene*	NE	20,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NE	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NE	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NE	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene*	NE	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NE	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene*	NE	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene*	NE	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene*	NE	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene*	NE	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NE	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETPH by CT method (mg/kg)	2,500	2,500	**980**	NA	**500**	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP ETPH by CT method (mg/l)	NE	2.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids (%)	--	--	NA	NA	NA	NA	**42.0**	**48.2**	NA	**38.1**	**32.4**	NA	**30.2**	**30.5**

NOTES:

1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes, refer to laboratory report.
3. The site is located within a GB groundwater area. For comparison to SPLP results for Organics except for PCBs, the GB PMC listed is 10x the GWPC.

* These criteria are available through the submission and approval by CT DEEP of a Request for Approval of Criteria for Additional Polluting Substances and Certain Alternative Criteria Form.

A/B labels indicate smaller subintervals for normal samples.

R = location depth was resampled.
mg/kg = milligrams per kilogram
µg/l = micrograms per liter
< = compound not detected above laboratory reporting limit, shown.
BOLD = compound detected at that concentration.
NA = Not Analyzed
GB PMC = GB Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
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EXCEEDS I/C DEC
EXCEEDS GB PMC
EXCEEDS I/C DEC AND GB PMC

Table 7
AOC-14 Summary of Sediment and Porous Media Results
English Station Soil and Groundwater Investigation
510 Grand Avenue, New Haven, Connecticut

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS[1]		WS-AOC14-SE-18	WS-AOC14-CO-18	WS-AOC14-SE-19	WS-AOC14-SE-20	WS-AOC14-SE-21	WS-AOC14-SE-22	WS-AOC14-SE-DUP-1	WS-AOC14-SE-23	WS-AOC14-SE-24	WS-AOC14-SE-25	WS-AOC14-SE-26	WS-AOC14-CO-26
SAMPLE DEPTH (ft bgs)				(0-0.5')										(0-0.5')
DATE SAMPLED			8/10/17	8/10/17	8/11/17	8/11/17	8/11/17	8/11/17	8/11/17	8/11/17	8/11/17	8/11/17	8/11/17	8/11/17
WORK ORDER NO.			17H0617	17H0617	17H0711	17H0711	17H0711	17H0711	17H0711	17H0711	17H0711	17H0711	17H0711	17H0711
QA/QC IDENTIFIER	I/C DEC	GB PMC[3]						PARENT	DUPLICATE					
PARAMETER (Units)[2]														
Polychlorinated Biphenyls by EPA method 8082 (mg/kg)														
PCB-1248	10	--	**0.54**	<0.10	<0.20	<0.23	**0.29**	<0.25	<0.25	<0.26	<0.19	<0.22	**0.85**	<0.10
PCB-1254	10	--	**0.47**	<0.10	<0.20	<0.23	**0.33**	**0.37**	**0.61**	**0.38**	**0.23**	<0.22	**1.0**	<0.10
PCB-1260	10	--	<0.35	<0.10	<0.20	**0.31**	<0.24	<0.25	**0.32**	<0.26	**0.20**	**0.34**	**0.51**	<0.10
Total PCBs	10	--	**1.01**	<0.10	<0.20	**0.31**	**0.62**	**0.37**	**0.93**	**0.38**	**0.43**	**0.34**	**2.36**	<0.10
SPLP Polychlorinated Biphenyls by EPA method 8082 (µg/l)														
Total PCBs	--	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds by EPA method 8270 (mg/kg)														
Acenaphthene*	2,500	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	2,500	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene*	2,500	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene*	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene*	780	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene*	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,500	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,500	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene*	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene*	1,000	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	2,500	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	2,500	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	2,500	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Semivolatile Organic Compounds by EPA method 8270 (µg/l)														
Acenaphthene*	NE	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene*	NE	20,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NE	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NE	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NE	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene*	NE	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NE	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene*	NE	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene*	NE	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene*	NE	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene*	NE	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NE	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETPH by CT method (mg/kg)	2,500	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP ETPH by CT method (mg/l)	NE	2.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids (%)	--	--	**28.3**	NA	**50.7**	**42.8**	**42.3**	**40.7**	**39.7**	**38.0**	**51.6**	**44.7**	**27.9**	NA

NOTES:

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EXCEEDS I/C DEC
EXCEEDS GB PMC
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Table 7
AOC-14 Summary of Sediment and Porous Media Results
English Station Soil and Groundwater Investigation
510 Grand Avenue, New Haven, Connecticut

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS[1]		WS-AOC14-SE-27	WS-AOC14-SE-28	WS-AOC14-SE-29	WS-AOC14-CO-29	WS-AOC-14-SE-30	WS-AOC14-CO-30	WS-AOC-14-SE-31	WS-AOC-14-SE-32	WS-AOC14-CO-32	WS-AOC-14-SE-33	WS-AOC14-CO-33	WS-AOC14-SE-34	WS-AOC14-CO-34
SAMPLE DEPTH (ft bgs)						(0-0.5')		(0-0.5')					(0-0.5')		(0-0.5')
DATE SAMPLED			8/11/17	8/11/17	8/14/17	8/21/17	8/14/17	8/21/17	8/14/17	8/14/17	8/21/17	8/14/17	8/21/17	8/21/17	8/21/17
WORK ORDER NO.			17H0711	17H0711	17H0854	17H1163	17H0854	17H1163	17H0854	17H0854	17H1163	17H0854	17H1163	17H1163	17H1163
QA/QC IDENTIFIER	I/C DEC	GB PMC[3]													
PARAMETER (Units)[2]															
Polychlorinated Biphenyls by EPA method 8082 (mg/kg)															
PCB-1248	10	--	**1.3**	**0.94**	**1.9**	<0.10	**0.50**	<0.10	**0.52**	<0.38	<0.10	<0.38	<0.10	**0.25**	<0.10
PCB-1254	10	--	**1.3**	**1.1**	**2.1**	<0.10	**0.65**	<0.10	**0.57**	<0.38	<0.10	<0.38	<0.10	**0.26**	<0.10
PCB-1260	10	--	**0.53**	**0.58**	**0.87**	<0.10	**0.47**	<0.10	**0.50**	**0.53**	<0.10	**0.58**	<0.10	**0.20**	<0.10
Total PCBs	10	--	**3.13**	**2.62**	**4.87**	<0.10	**1.62**	<0.10	**1.59**	**0.53**	<0.10	**0.58**	<0.10	**0.71**	<0.10
SPLP Polychlorinated Biphenyls by EPA method 8082 (µg/l)															
Total PCBs	--	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds by EPA method 8270 (mg/kg)															
Acenaphthene*	2,500	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	2,500	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene*	2,500	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene*	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene*	780	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene*	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,500	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,500	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene*	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene*	1,000	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	2,500	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	2,500	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	2,500	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Semivolatile Organic Compounds by EPA method 8270 (µg/l)															
Acenaphthene*	NE	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene*	NE	20,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NE	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NE	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NE	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene*	NE	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NE	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene*	NE	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene*	NE	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene*	NE	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene*	NE	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NE	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETPH by CT method (mg/kg)	2,500	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP ETPH by CT method (mg/l)	NE	2.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids (%)	--	--	**34.8**	**31.4**	**30.0**	NA	**31.0**	NA	**29.4**	**26.2**	NA	**26.5**	NA	NA	NA

NOTES:

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3. The site is located within a GB groundwater area. For comparison to SPLP results for Organics except for PCBs, the GB PMC listed is 10x the GWPC.

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mg/kg = milligrams per kilogram
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NE = Not Established by DEEP
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EXCEEDS I/C DEC
EXCEEDS GB PMC
EXCEEDS I/C DEC AND GB PMC

Table 7
AOC-14 Summary of Sediment and Porous Media Results
English Station Soil and Groundwater Investigation
510 Grand Avenue, New Haven, Connecticut

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS[1]		WS-AOC14-SE-35	WS-AOC14-SE-36	WS-AOC14-CO-36	WS-AOC14-SE-37	WS-AOC14-CO-37	WS-AOC14-SE-38	WS-AOC14-CO-38	WS-AOC14-SE-39	WS-AOC14-CO-39	WS-AOC14-SE-40	WS-AOC14-CO-40
SAMPLE DEPTH (ft bgs)					(0-0.5')		(0-0.5')		(0-0.5')		(0-0.5')		(0-0.5')
DATE SAMPLED			8/21/17	8/21/17	8/21/17	8/21/17	8/21/17	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17
WORK ORDER NO.			17H1163	17H1163	17H1163	17H1163	17H1163	17H1209	17H1209	17H1209	17H1209	17H1209	17H1209
QA/QC IDENTIFIER	I/C DEC	GB PMC[3]											
PARAMETER (Units)[2]													
Polychlorinated Biphenyls by EPA method 8082 (mg/kg)													
PCB-1248	10	--	**0.16**	**0.12**	<0.10	**0.18**	<0.10	**0.10**	<0.50	<0.50	<0.50	<0.50	<0.50
PCB-1254	10	--	**0.20**	**0.15**	<0.10	**0.21**	<0.10	**0.13**	<0.50	<0.50	<0.50	<0.50	<0.50
PCB-1260	10	--	**0.22**	**0.15**	<0.10	**0.28**	<0.10	**0.17**	<0.50	<0.50	<0.50	<0.50	<0.50
Total PCBs	10	--	**0.58**	**0.42**	<0.10	**0.67**	<0.10	**0.40**	<0.50	<0.50	<0.50	<0.50	<0.50
SPLP Polychlorinated Biphenyls by EPA method 8082 (µg/l)													
Total PCBs	--	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds by EPA method 8270 (mg/kg)													
Acenaphthene*	2,500	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	2,500	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene*	2,500	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene*	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene*	780	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene*	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,500	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,500	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene*	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene*	1,000	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	2,500	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	2,500	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	2,500	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Semivolatile Organic Compounds by EPA method 8270 (µg/l)													
Acenaphthene*	NE	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene*	NE	20,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NE	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NE	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NE	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene*	NE	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NE	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene*	NE	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene*	NE	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene*	NE	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene*	NE	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NE	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETPH by CT method (mg/kg)	2,500	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP ETPH by CT method (mg/l)	NE	2.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids (%)	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

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EXCEEDS I/C DEC AND GB PMC

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English Station Soil and Groundwater Investigation
510 Grand Avenue, New Haven, Connecticut

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS[1]		WS-AOC14-SE-41	WS-AOC14-CO-41	WS-AOC14-SE-42	WS-AOC-14-SE-43	WS-AOC14-CO-43	WS-AOC-14-SE-44	WS-AOC14-CO-44	WS-AOC-14-SE-45	WS-AOC14-CO-45	WS-AOC-14-SE-46	WS-AOC14-CO-46	WS-AOC-14-SE-47	WS-AOC14-CO-47
SAMPLE DEPTH (ft bgs)			(0-0.5')	(0-0.5')	(0-0.5')		(0-0.5')		(0-0.5')		(0-0.5')		(0-0.5')		(0-0.5')
DATE SAMPLED			8/22/17	8/22/17	8/22/17	8/24/17	8/30/17	8/24/17	8/30/17	8/24/17	8/30/17	8/24/17	8/30/17	8/24/17	8/30/17
WORK ORDER NO.			17H1209	17H1209	17H1209	17H1359	17H1621	17H1359	17H1621	17H1359	17H1621	17H1359	17H1621	17H1359	17H1621
QA/QC IDENTIFIER	I/C DEC	GB PMC[3]													
PARAMETER (Units)[2]															
Polychlorinated Biphenyls by EPA method 8082 (mg/kg)															
PCB-1248	10	--	<0.50	<0.10	**0.10**	**0.36**	**0.11**	**0.55**	**0.16**	**4.6**	**0.11**	**0.81**	<0.096	**0.97**	<0.098
PCB-1254	10	--	<0.50	<0.10	**0.17**	**0.37**	**0.14**	**0.72**	**0.18**	**4.0**	**0.12**	**0.90**	<0.096	**1.0**	<0.098
PCB-1260	10	--	<0.50	<0.10	**0.32**	**0.31**	**0.23**	**0.40**	**0.20**	**1.3**	<0.099	**0.45**	<0.096	**0.55**	<0.098
Total PCBs	10	--	<0.50	<0.10	**0.59**	**1.04**	**0.48**	**1.67**	**0.54**	**9.9**	**0.23**	**2.16**	<0.096	**2.52**	<0.098
SPLP Polychlorinated Biphenyls by EPA method 8082 (µg/l)															
Total PCBs	--	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds by EPA method 8270 (mg/kg)															
Acenaphthene*	2,500	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	2,500	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene*	2,500	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene*	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene*	780	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene*	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,500	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,500	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene*	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene*	1,000	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	2,500	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	2,500	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	2,500	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Semivolatile Organic Compounds by EPA method 8270 (µg/l)															
Acenaphthene*	NE	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene*	NE	20,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NE	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NE	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NE	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene*	NE	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NE	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene*	NE	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene*	NE	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene*	NE	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene*	NE	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NE	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETPH by CT method (mg/kg)	2,500	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP ETPH by CT method (mg/l)	NE	2.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids (%)	--	--	NA	NA	NA	**27.7**	NA	**43.9**	NA	**31.5**	NA	**41.6**	NA	**38.7**	NA

NOTES:

1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes, refer to laboratory report.
3. The site is located within a GB groundwater area. For comparison to SPLP results for Organics except for PCBs, the GB PMC listed is 10x the GWPC.

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A/B labels indicate smaller subintervals for normal samples.

R = location depth was resampled.

mg/kg = milligrams per kilogram

µg/l = micrograms per liter

< = compound not detected above laboratory reporting limit, shown.

BOLD = compound detected at that concentration.

NA = Not Analyzed

GB PMC = GB Pollutant Mobility Criteria

I/C DEC = Industrial/Commercial Direct Exposure Criteria

NE = Not Established by DEEP

-- = Not Applicable

EXCEEDS I/C DEC

EXCEEDS GB PMC

EXCEEDS I/C DEC AND GB PMC

Table 7
AOC-14 Summary of Sediment and Porous Media Results
English Station Soil and Groundwater Investigation
510 Grand Avenue, New Haven, Connecticut

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS[1]		WS-AOC-14-SE-48	WS-AOC14-CO-48	WS-AOC14-WO-49	WS-AOC14-CO-50	WS-AOC14-SE-51	WS-AOC14-CO-51	WS-AOC14-SE-52	WS-AOC14-CO-52	WS-AOC14-SE-53	WS-AOC14-CO-53	WS-AOC14-CO-DUP-1
SAMPLE DEPTH (ft bgs)			(0-0.5')	(0-0.5')		(0-0.5')		(0-0.5')		(0-0.5')		(0-0.5')	(0-0.5')
DATE SAMPLED			8/24/17	8/30/17	8/30/17	8/30/17	8/30/17	8/30/17	8/30/17	8/30/17	8/30/17	8/30/17	8/30/17
WORK ORDER NO.			17H1359	17H1621	17H1621	17H1621	17H1621	17H1621	17H1621	17H1621	17H1621	17H1621	17H1621
QA/QC IDENTIFIER	I/C DEC	GB PMC[3]										PARENT	DUPLICATE
PARAMETER (Units)[2]													
Polychlorinated Biphenyls by EPA method 8082 (mg/kg)													
PCB-1248	10	--	<0.21	<0.097	<0.093	**0.10**	**0.59**	<0.098	**0.31**	<0.99	**0.097**	<0.099	<0.096
PCB-1254	10	--	<0.21	<0.097	<0.093	**0.11**	**0.53**	<0.098	**0.34**	<0.99	**0.12**	<0.099	<0.096
PCB-1260	10	--	**0.30**	<0.097	<0.093	<0.096	**0.21**	<0.098	**0.12**	<0.99	<0.093	<0.099	<0.096
Total PCBs	10	--	**0.30**	<0.097	<0.093	**0.21**	**1.33**	<0.098	**0.77**	<0.99	**0.22**	<0.099	<0.096
SPLP Polychlorinated Biphenyls by EPA method 8082 (µg/l)													
Total PCBs	--	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds by EPA method 8270 (mg/kg)													
Acenaphthene*	2,500	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	2,500	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene*	2,500	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene*	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene*	780	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene*	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,500	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,500	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene*	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene*	1,000	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	2,500	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	2,500	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	2,500	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Semivolatile Organic Compounds by EPA method 8270 (µg/l)													
Acenaphthene*	NE	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene*	NE	20,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NE	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NE	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NE	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene*	NE	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NE	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene*	NE	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene*	NE	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene*	NE	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene*	NE	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NE	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETPH by CT method (mg/kg)	2,500	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP ETPH by CT method (mg/l)	NE	2.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids (%)	--	--	**37.5**	NA	NA	NA	**43.3**	NA	**76.3**	NA	**84.0**	NA	NA

NOTES:

1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes, refer to laboratory report.
3. The site is located within a GB groundwater area. For comparison to SPLP results for Organics except for PCBs, the GB PMC listed is 10x the GWPC.

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A/B labels indicate smaller subintervals for normal samples.

R = location depth was resampled.
mg/kg = milligrams per kilogram
µg/l = micrograms per liter
< = compound not detected above laboratory reporting limit, shown.
BOLD = compound detected at that concentration.
NA = Not Analyzed
GB PMC = GB Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
NE = Not Established by DEEP
-- = Not Applicable

EXCEEDS I/C DEC
EXCEEDS GB PMC
EXCEEDS I/C DEC AND GB PMC

Table 7
AOC-14 Summary of Sediment and Porous Media Results
English Station Soil and Groundwater Investigation
510 Grand Avenue, New Haven, Connecticut

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS[1]		WS-AOC14-SE-54	WS-AOC14-CO-54	WS-AOC14-SE-55	WS-AOC14-CO-55	WS-AOC14-SE-56	WS-AOC14-CO-56	WS-AOC14-SE-57	WS-AOC14-CO-57	WS-AOC14-SE-58	WS-AOC14-CO-58	WS-AOC14-SE-59	WS-AOC14-CO-59
SAMPLE DEPTH (ft bgs)				(0-0.5')		(0-0.5')		(0-0.5')		(0-0.5')		(0-0.5')		(0-0.5')
DATE SAMPLED			8/30/17	8/30/17	8/30/17	8/30/17	8/30/17	8/30/17	9/1/17	9/1/17	9/1/17	9/1/17	9/1/17	9/1/17
WORK ORDER NO.			17H1621	17H1621	17H1621	17H1621	17H1621	17H1621	17I0058	17I0058	17I0058	17I0058	17I0058	17I0058
QA/QC IDENTIFIER	I/C DEC	GB PMC[3]												
PARAMETER (Units)[2]														
Polychlorinated Biphenyls by EPA method 8082 (mg/kg)														
PCB-1248	10	--	**0.21**	<0.99	**2.1**	<0.96	**0.33**	<0.96	<0.12	<0.079	<0.086	<0.096	<0.14	<0.99
PCB-1254	10	--	**0.35**	<0.99	**1.7**	<0.96	**0.55**	<0.96	<0.12	<0.079	**0.13**	<0.096	**0.16**	<0.99
PCB-1260	10	--	<0.12	<0.99	**0.64**	<0.96	**0.30**	<0.96	<0.12	<0.079	<0.086	<0.096	<0.14	<0.99
Total PCBs	10	--	**0.56**	<0.99	**4.44**	<0.96	**1.18**	<0.96	<0.12	<0.079	**0.13**	<0.096	**0.16**	<0.99
SPLP Polychlorinated Biphenyls by EPA method 8082 (µg/l)														
Total PCBs	--	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds by EPA method 8270 (mg/kg)														
Acenaphthene*	2,500	84	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	2,500	84	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene*	2,500	400	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	7.8	1	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	1	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	7.8	1	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene*	78	1	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	78	1	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene*	780	1	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene*	1	1	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,500	56	**1.7**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,500	56	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene*	7.8	1	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene*	1,000	5.6	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	2,500	56	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	2,500	40	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	2,500	40	**1.6**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Semivolatile Organic Compounds by EPA method 8270 (µg/l)														
Acenaphthene*	NE	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene*	NE	20,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NE	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NE	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NE	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene*	NE	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NE	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene*	NE	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene*	NE	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene*	NE	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene*	NE	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NE	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETPH by CT method (mg/kg)	2,500	2,500	**1900**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP ETPH by CT method (mg/l)	NE	2.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids (%)	--	--	**62.5**	NA	**30.8**	NA	**47.8**	NA	**68.0**	NA	**92.5**	NA	**57.3**	NA

NOTES:

1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
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mg/kg = milligrams per kilogram
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EXCEEDS I/C DEC
EXCEEDS GB PMC
EXCEEDS I/C DEC AND GB PMC

Table 7
AOC-14 Summary of Sediment and Porous Media Results
English Station Soil and Groundwater Investigation
510 Grand Avenue, New Haven, Connecticut

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS[1]		WS-AOC14-SE-60	WS-AOC14-CO-60	WS-AOC14-SE-61	WS-AOC14-CO-61	WS-AOC14-SE-62	WS-AOC14-CO-62	WS-AOC14-SE-63	WS-AOC14-CO-63	WS-AOC14-SE-64	WS-AOC14-CO-64	WS-AOC14-SE-65	WS-AOC14-CO-65
SAMPLE DEPTH (ft bgs)				(0-0.5')		(0-0.5')		(0-0.5')		(0-0.5')		(0-0.5')		(0-0.5')
DATE SAMPLED			9/1/17	9/1/17	9/1/17	9/1/17	9/1/17	9/1/17	9/1/17	9/1/17	9/6/17	9/6/17	9/6/17	9/6/17
WORK ORDER NO.			1710058	1710058	1710058	1710058	1710058	1710058	1710058	1710058	1710172	1710172	1710172	1710172
QA/QC IDENTIFIER	I/C DEC	GB PMC[3]												
PARAMETER (Units)[2]														
Polychlorinated Biphenyls by EPA method 8082 (mg/kg)														
PCB-1248	10	--	<0.14	<0.096	**0.12**	<0.091	**0.20**	<0.099	**0.23**	<0.093	<0.092	<0.098	<0.093	<0.099
PCB-1254	10	--	**0.17**	<0.096	**0.15**	<0.091	**0.27**	<0.099	**0.28**	<0.093	<0.092	<0.098	**0.13**	<0.099
PCB-1260	10	--	<0.14	<0.096	**0.14**	<0.091	**0.27**	<0.099	**0.21**	<0.093	<0.092	<0.098	<0.093	<0.099
Total PCBs	10	--	**0.17**	<0.096	**0.41**	<0.091	**0.74**	<0.099	**0.72**	<0.093	<0.092	<0.098	**0.13**	<0.099
SPLP Polychlorinated Biphenyls by EPA method 8082 (µg/l)														
Total PCBs	--	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds by EPA method 8270 (mg/kg)														
Acenaphthene*	2,500	84	NA	NA	NA	NA	NA	NA	**0.42**	NA	NA	NA	NA	NA
Acenaphthylene	2,500	84	NA	NA	NA	NA	NA	NA	**0.29**	NA	NA	NA	NA	NA
Anthracene*	2,500	400	NA	NA	NA	NA	NA	NA	**1.8**	NA	NA	NA	NA	NA
Benzo(a)anthracene	7.8	1	NA	NA	NA	NA	NA	NA	**5.1**	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	1	NA	NA	NA	NA	NA	NA	**4.6**	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	7.8	1	NA	NA	NA	NA	NA	NA	**6.7**	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene*	78	1	NA	NA	NA	NA	NA	NA	**3.2**	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	78	1	NA	NA	NA	NA	NA	NA	**2.3**	NA	NA	NA	NA	NA
Chrysene*	780	1	NA	NA	NA	NA	NA	NA	**5.6**	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene*	1	1	NA	NA	NA	NA	NA	NA	**0.86**	NA	NA	NA	NA	NA
Fluoranthene	2,500	56	NA	NA	NA	NA	NA	NA	**14**	NA	NA	NA	NA	NA
Fluorene	2,500	56	NA	NA	NA	NA	NA	NA	**0.80**	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene*	7.8	1	NA	NA	NA	NA	NA	NA	**3.5**	NA	NA	NA	NA	NA
2-Methylnaphthalene*	1,000	5.6	NA	NA	NA	NA	NA	NA	**1.0**	NA	NA	NA	NA	NA
Naphthalene	2,500	56	NA	NA	NA	NA	NA	NA	**1.8**	NA	NA	NA	NA	NA
Phenanthrene	2,500	40	NA	NA	NA	NA	NA	NA	**8.0**	NA	NA	NA	NA	NA
Pyrene	2,500	40	NA	NA	NA	NA	NA	NA	**12**	NA	NA	NA	NA	NA
SPLP Semivolatile Organic Compounds by EPA method 8270 (µg/l)														
Acenaphthene*	NE	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene*	NE	20,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NE	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NE	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NE	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene*	NE	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NE	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene*	NE	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene*	NE	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene*	NE	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene*	NE	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NE	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETPH by CT method (mg/kg)	2,500	2,500	NA	NA	NA	NA	NA	NA	**1300**	NA	NA	NA	NA	NA
SPLP ETPH by CT method (mg/l)	NE	2.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids (%)	--	--	**56.1**	NA	**90.8**	NA	**95.8**	NA	**62.9**	NA	**86.9**	NA	**85.6**	NA

NOTES:

1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes, refer to laboratory report.
3. The site is located within a GB groundwater area. For comparison to SPLP results for Organics except for PCBs, the GB PMC listed is 10x the GWPC.

* These criteria are available through the submission and approval by CT DEEP of a Request for Approval of Criteria for Additional Polluting Substances and Certain Alternative Criteria Form.

A/B labels indicate smaller subintervals for normal samples.

R = location depth was resampled.
mg/kg = milligrams per kilogram
µg/l = micrograms per liter
< = compound not detected above laboratory reporting limit, shown.
BOLD = compound detected at that concentration.
NA = Not Analyzed
GB PMC = GB Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
NE = Not Established by DEEP
-- = Not Applicable

EXCEEDS I/C DEC
EXCEEDS GB PMC
EXCEEDS I/C DEC AND GB PMC

Table 7
AOC-14 Summary of Sediment and Porous Media Results
English Station Soil and Groundwater Investigation
510 Grand Avenue, New Haven, Connecticut

SAMPLE LOCATION	REMEDIATION STANDARD REGULATIONS[1]		WS-AOC14-SE-66	WS-AOC14-CO-66	WS-AOC14-SE-67	WS-AOC14-CO-67	WS-AOC14-SE-68	WS-AOC14-CO-68	WS-AOC14-SE-69	WS-AOC14-CO-69	WS-AOC14-SE-70	WS-AOC14-CO-70	WS-AOC14-SE-71	WS-AOC14-CO-71
SAMPLE DEPTH (ft bgs)				(0-0.5')		(0-0.5')		(0-0.5')		(0-0.5')		(0-0.5')		(0-0.5')
DATE SAMPLED			9/6/17	9/6/17	9/6/17	9/6/17	9/6/17	9/6/17	9/6/17	9/6/17	9/6/17	9/6/17	9/6/17	9/6/17
WORK ORDER NO.			1701172	1701172	1701172	1701172	1701172	1701172	1701172	1701172	1701172	1701172	1701172	1701172
QA/QC IDENTIFIER	I/C DEC	GB PMC[3]												
PARAMETER (Units)[2]														
Polychlorinated Biphenyls by EPA method 8082 (mg/kg)														
PCB-1248	10	--	**0.44**	<0.096	**0.32**	<0.085	**0.19**	<0.087	**0.56**	<0.97	**0.32**	<0.091	**0.62**	<0.93
PCB-1254	10	--	**0.51**	<0.096	**0.39**	<0.085	**0.35**	<0.087	**0.69**	<0.97	**0.46**	<0.091	**0.62**	<0.93
PCB-1260	10	--	**0.25**	<0.096	**0.24**	<0.085	**0.26**	<0.087	**0.35**	<0.97	**0.25**	<0.091	**0.28**	<0.93
Total PCBs	10	--	**1.2**	<0.096	**0.95**	<0.085	**0.8**	<0.087	**1.6**	<0.97	**1.03**	<0.091	**1.52**	<0.93
SPLP Polychlorinated Biphenyls by EPA method 8082 (µg/l)														
Total PCBs	--	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds by EPA method 8270 (mg/kg)														
Acenaphthene*	2,500	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	2,500	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene*	2,500	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene*	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene*	780	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene*	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,500	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,500	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene*	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene*	1,000	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	2,500	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	2,500	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	2,500	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Semivolatile Organic Compounds by EPA method 8270 (µg/l)														
Acenaphthene*	NE	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NE	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene*	NE	20,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	NE	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	NE	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NE	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene*	NE	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	NE	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene*	NE	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene*	NE	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene*	NE	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene*	NE	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NE	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NE	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NE	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ETPH by CT method (mg/kg)	2,500	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP ETPH by CT method (mg/l)	NE	2.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids (%)	--	--	**55.0**	NA	**62.6**	NA	**83.5**	NA	**71.8**	NA	**57.4**	NA	**47.2**	NA

NOTES:

1. Analytical results compared to Connecticut Remediation Standard Regulations (January 1996; revised June 27, 2013).
2. Only compounds that were detected are provided in this table. For a complete list of analytes, refer to laboratory report.
3. The site is located within a GB groundwater area. For comparison to SPLP results for Organics except for PCBs, the GB PMC listed is 10x the GWPC.

* These criteria are available through the submission and approval by CT DEEP of a Request for Approval of Criteria for Additional Polluting Substances and Certain Alternative Criteria Form.

A/B labels indicate smaller subintervals for normal samples.

R = location depth was resampled.
mg/kg = milligrams per kilogram
µg/l = micrograms per liter
< = compound not detected above laboratory reporting limit, shown.
BOLD = compound detected at that concentration.
NA = Not Analyzed
GB PMC = GB Pollutant Mobility Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
NE = Not Established by DEEP
-- = Not Applicable

EXCEEDS I/C DEC
EXCEEDS GB PMC
EXCEEDS I/C DEC AND GB PMC

Situation #4 Oily Sump Pit

MEMORANDUM

To: Mr. Gary Trombly, Jr, CT DEEP
Ms. Lori Saliby, CT DEEP

From: Mr. Shawn Crosbie, UI
Ms. Marya Mahoney, LEP, TRC
Mr. Carl Stopper, PE, TRC

Subject: **English Station – Station B Situation #4 Resolution**
Oily Sump Pit Structure
TRC Project No.: 263951

Date: April 7, 2020

Introduction

This memo has been prepared at the request of the Connecticut Department of Energy and Environmental Protection (CTDEEP) to summarize the results of the sampling, removal and disposal of the contents of the small concrete sump pit ("sump") located as shown on the attached figure that was found to contain oil and a mixture of soil and debris within the former Station B building on Parcel A located at 510A Grand Avenue. This memo also serves as an amendment to the "*English Station Partial Soil Remedial Action Plan - 510 & 510A Grand Avenue (dated September 2018, revised September 2019),also known as the (non-PCB) Soil Remedial Action Plan*" as it describes how the concrete sump structure will be removed and disposed of during the performance of other remedial actions covered under that plan. The sump was first discovered on January 14, 2020 during the final cleaning of Station B demolition debris from the basement slab. The surface of the sump opening measuring approximately 2 feet by 3 feet was found during debris cleaning. Initially the dimensions of the concrete sump were unknown, as reported to the CTDEEP via e-mail in the morning of January 15, 2020 as a small depression containing oil and debris. As debris in the area around the sump was removed with hand shovels in first few inches from a corner within the sump, oil staining of the underlying material was observed and free phase oil pooled in the bottom of the excavation (Refer to the attached Photo Log – Photo #2). As communicated in the January 15th email a PCB sample was taken on January 14, 2020 of the oil to determine if the concentration of Halogenated Solvents (SW 845 8260C-D) and PCBs (EPA 600 4-81-45 via Soxhlet). The sample was submitted to Con-Test Environmental Laboratories of East Longmeadow, Massachusetts. On January 15, 2020 UI received the results of the sample indicating the PCB concentration was <0.79 mg/mg and all Halogenated Solvents were below laboratory reportable limits. The CTDEEP was provided a copy of Con-Test report 20A0594 via e-mail in the early afternoon of January 15, 2020. A copy of the lab report is attached. Through follow-up conversation with the CTDEEP it was decided to designate the sump activities as Situation #4.

Sump Contents Removal and Sampling

On Wednesday, January 15, 2020 UI's contractor, ACV began removing the debris and oil from the sump area, placing the material into one 55-gallon steel drum, which was then transferred to the waste storage area on the West side inside English Station. Free phase oil was absorbed onto absorbent pads and placed into the drum with the solid material. ACV was only able to remove material with shovels and steel bar to a depth of approximately one foot due to the compactness of the material and the small dimensions (2 ft. x 3 ft.) of the sump. ACV placed an absorbent sock in the sump and covered the top with poly-sheeting and plywood.

On January 22, 2020, ACV finished removal of the sump contents (liquid and solids/debris) using a combination of hand tools and a turbo-vac truck. Liquids, which were a combination of rainwater and oil, were first pumped into a 55-gallon steel drum. The concrete sump bottom was reached at a depth of approximately 3 feet below the basement floor slab. Following solids removal ACV used a solution of Simple Green and water to scrub the walls and floor of the sump. The small volume of this solution was removed using the turbo-vac truck and combined with the solids. Two 55-gallon steel drums of solid material were generated upon emptying the turbo-vac. All three drums were transferred to the waste storage area inside the Western portion of English Station.

On January 22, 2020 TRC collected a solid sample from the previously drummed material. The sample (TRC-AOC-1-SOLID-02) was sent to Con-Test Laboratory for analysis. A copy of lab report 20A0963 is attached. The material was analyzed by the following methods and detection limits were below regulatory criteria for waste characterization:

- Volatile Organic Compounds (VOCs) – EPA Method 8260
- Semi-Volatile Organic Compounds (SVOCs) – EPA Method 8270
- RCRA 8 Metals – EPA Method 6020 & 7470
- Polychlorinated Bi-Phenyls (PCBs) – EPA Method 8082 with Soxhlet Extraction
- Extractable Total Petroleum Hydrocarbons (ETPH) – CTDEEP Method
- Reactive Cyanide – EPA Method 9014
- Reactive Sulfide – EPA Method 9030
- pH – EPA Method 9045
- % Solids – SM 245D
- Free Liquid - EPA Method 9095
- TCLP 8 RCRA Metals – EPA Method 6010 & 7470

PCBs were not detected (<0.085 mg/Kg) and is therefore not USEPA or CTDEEP regulated for PCBs. The SVOC results were non-detect, with reporting limits below the CT Remediation Standards Regulations (RSRs) for Industrial Commercial Direct Exposure (I/CDEC) and GB Pollutant Mobility Criteria (GBPMC). All of the TCLP RCRA 8 metals results were non-detect, with reporting limits below the RSR GBPMC for these constituents. All of

the other RCRA hazardous waste tests such as reactivity, ignitability, flashpoint and pH were below the RCRA hazardous waste thresholds. The remaining detections are summarized below:

Summary of Constituents in Sample TRC-AOC-1-SOLID-02 Above Reporting Limits

SUBSTANCE	CONCENTRATION	I/CDEC	GBPMC
CT ETPH	96,000 mg/Kg	2,500 mg/Kg	2,500 mg/Kg
p-Isopropyltoluene	0.006 mg/Kg	1,000 mg/Kg	41.8 mg/Kg
1,2,4-Trimethylbenzene	0.015 mg/Kg	1,000 mg/Kg	70 mg/Kg
Total Arsenic	4.5 mg/Kg	10 mg/Kg	-
Total Barium	190 mg/Kg	140,000 mg/Kg	-
Total Chromium	23 mg/Kg	NE/(100 mg/Kg for Cr^{+6})	-
Total Lead	71 mg/Kg	1,000 mg/Kg	-
Total Mercury	0.14 mg/Kg	610 mg/Kg	-

NE – Criteria Not Established

Based on the above summary and attached analytical data, these wastes will be managed as a state regulated waste, CR05 Waste Chemical Solid.

On January 23, 2020 and January 24, 2020 TRC inspected the sump to observe if any oil seeped into the sump. No oil or other liquids were observed (Refer to the attached Photo Log – Photo #8).

On January 28, 2020, UI provided CTDEEP a copy of Con-Test Lab Report 20A0963 and the photos of the sump via e-mail. On February 10, 2020 UI received an email from CTDEEP on Situation #4 requesting an outline of sampling efforts based on earlier phone discussions related to treating the concrete sump like an underground tank grave, taking sidewall and bottom samples and analyzing for ETPH.

On February 11, 2020 TRC collected the requested five concrete samples (TRC-AOC-1-CO-01(0-0.5") through CO-05). Prior to sampling the concrete, the rainwater that collected in the sump was removed and placed into an empty 55-gallon steel drum. The drum was moved to the waste storage area inside Western portion of English Station. The concrete samples were submitted to Con-Test for analysis and the results are contained in the attached Con-Test Report 20B0447 dated February 13, 2020. The five ETPH results are as follows:

- TRC-AOC-1-CO-01(0-0.5") – 17,000 mg/Kg (East Wall)
- TRC-AOC-1-CO-02(0-0.5") – 40,000 mg/Kg (North Wall)
- TRC-AOC-1-CO-03(0-0.5") – 1,800 mg/Kg (West Wall)
- TRC-AOC-1-CO-04(0-0.5") – 6,400 mg/Kg (South Wall)
- TRC-AOC-1-CO-05(0-0.5") – 25,000 mg/Kg (Floor)

Follow-up discussion with CTDEEP at the February 19, 2020 meeting regarding Situation #4, it was determined that this memo would document the findings from the work performed to date and describe how the sump will be managed during the remediation for Parcel A. It was agreed by both UI and CT DEEP that the sump

structure will be completely removed during the Parcel A soil remediation efforts and disposed of offsite with the other Connecticut Regulated solid waste (CR05).

Removal and Disposal

The management and disposal of the solid and liquid drummed wastes will be performed by licensed transporter and disposal facilities permitted to accept, treat and/or dispose of the wastes. Based upon the testing performed the liquids in the two 55-gallon drums is classified as State Regulated Waste Code CR04, which is a Waste Chemical Liquid. CR04 covers any wastes that are liquid, free flowing and/or contain free draining liquids and are toxic, hazardous to handle and/or may cause contamination of ground and/or surface water if improperly managed. These wastes may include but are not limited to latex and solvent paint wastes, grinding wastes, waste sludges, antifreeze wastes and glycol solutions. The two 55-gallon drums containing solids from the sump is classified as State Regulated Waste Code CR05, which is a Waste Chemical Solid. CR05 covers any chemical solid or semi-solid from a commercial, industrial, agricultural or community activity. These wastes may include, but are not limited to, grinding dusts, tumbling sludges, scrap plastic and rubber flash, and other ground or chipped waste solid. The two drums of liquid and two drums of solid are currently staged inside the English Station building in the area designated for storage of drums containing wastes. The offsite disposal facilities for these materials is currently being evaluated, once selected UI will provide this information to the CTDEEP.

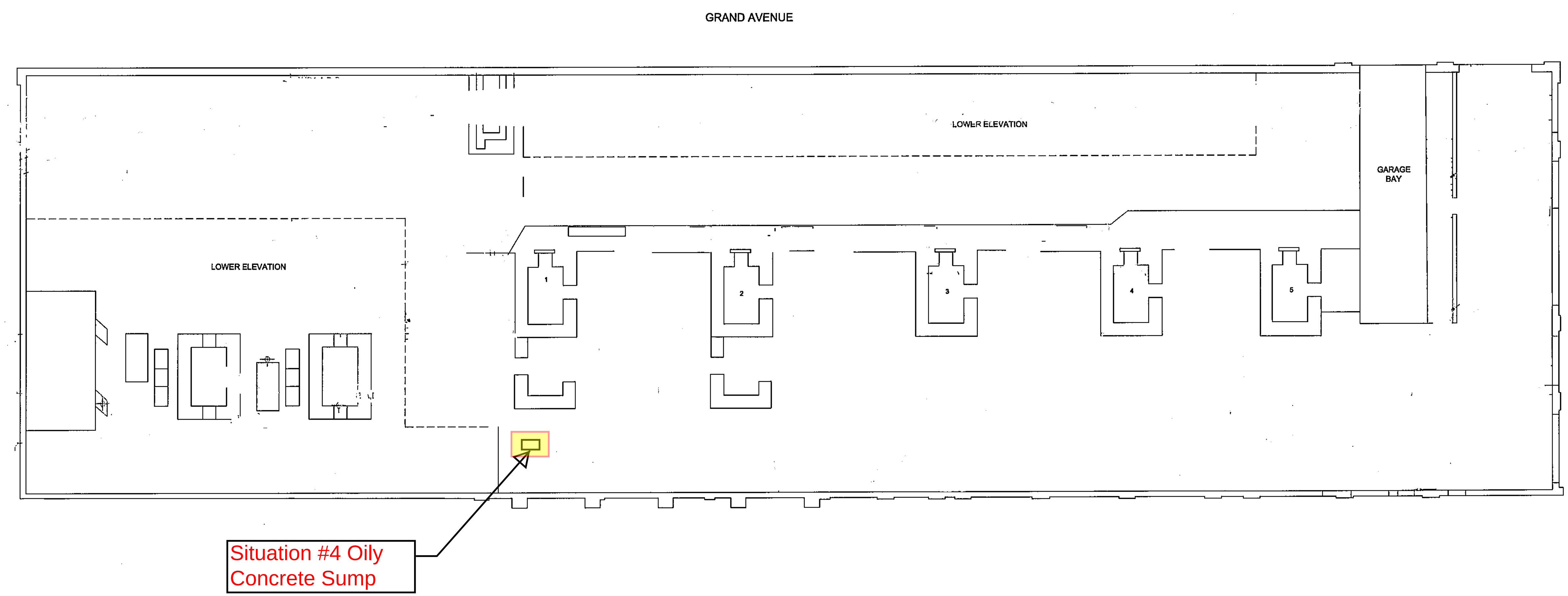
With regard to managing the ETPH impacts within the concrete sump structure, the plan proposed to CT DEEP during the February 2020 Monthly Meeting is to completely remove the entire sump structure during the soil remediation phase for Parcel A. The "English Station *Partial Soil Remedial Action Plan - 510 & 510A Grand Avenue (dated September 2018, revised September 2019)*" stipulates that the concrete basement slab for Station B will be broken or penetrated to allow surface water to drain freely through the slab. At the point that this work is performed the sump structure area will be completely removed and disposed of offsite as State Regulated Waste Code CR05. The soil surrounding the sump will be visibly checked for possible oil staining. If visible impacts are found, then the visibly impacted soil material will also be removed and disposed of with the sump structure. Sidewall and bottom Verification samples for ETPH analysis will be collected following sump and any necessary soil removal activities to ensure the CT ETPH levels are less than the GB Pollutant Mobility Criteria. Following the basement slab penetration and sump removal a non-woven geotextile will be placed on the surface before a minimum of 4 feet of tested suitable fill will be placed to render the underlying soil inaccessible in accordance with the CT DEEP Remediation Standards Regulations.

Photographs

Attached to this memorandum are a series of photographs that document the location of the sump and the steps described above.

Attachments:
Figure 1 – Site Plan
Photographs
Laboratory Reports
- *20A0594 Contest Final 01-15-2020*
- *20A0963 Contest Final 01-27-2020*
- *20B0447 Contest Final 02-13-2020*

FIGURE 1



LEGEND

(yellow box) – Area of proposed sump and soil excavation

SOURCE:
MAP TITLED "PLAN PREPARED FOR UNITED ILLUMINATING COMPANY, ENGLISH STATION, NEW HAVEN, CONNECTICUT, BASEMENT LEVEL - STATION B", SCALE: NTS, DATED: JAN. 2000, BY GEI CONSULTANTS, INC.

0 10' 20'
GRAPHIC SCALE

PROJECT: UNITED ILLUMINATING
ENGLISH STATION POWER PLANT
510 Grand Avenue
New Haven, Connecticut

Situation #4 - Oily Concrete Sump Location Plan - Station B

DRAWN BY:	K. Hollenbeck	PROJ. NO.:	263951-000013-000006
CHECKED BY:	G. Kaczynski	Figure 1	
APPROVED BY:	M. Kearney		
DATE:	03-25-2020		

TRC
21 Griffin Road North
Windsor, CT 06095
Phone: 860.298.9692
www.trcsolutions.com

FILE NO.: Station B Sampling.dwg

PHOTOGRAPHS

Photo 1: Sump Location Looking East along South Wall of Station B – 01-14-2020

Photo 2: Initial Hand Excavation and Discovery of Free Phase Oil. Oil Sample (TRC-AOC-1-OIL-01) Collected – 01-14-2020

Photo 3: Hand Removal and Drumming of Sump Contents to 1 Foot Deep – 01-15-2020

Photo 4: Sump Contents following Hand Removal – 01-15-2020

Photo 5: Absorbent Sock Placed inside Sump – 01-16-2020

Photo 6: Loosening Sump Contents during Turbo-vac Removal – 01-22-2020

Photo 7: Sump Condition Immediately Following Contents Removal 01-22-2020

Photo 8: Cleaned Sump Inspection – 01-24-2020

Photo 9: Sump Covered with Poly-Sheeting and Plywood 02-03-2020

Photo 10: Concrete Sump Sidewall Sampling 02-11-2020

LABORATORY REPORTS

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

January 15, 2020

Carl Stopper
TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095

Project Location: 510A Grand Ave, New Haven, CT
Client Job Number:
Project Number: 263951.000028.000001
Laboratory Work Order Number: 20A0594

Enclosed are results of analyses for samples received by the laboratory on January 14, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee
Project Manager

Table of Contents

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095
ATTN: Carl Stopper

REPORT DATE: 1/15/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 263951.000028.000001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20A0594

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510A Grand Ave, New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-AOC-1-OIL-01	20A0594-01	Oil		EPA 600 4-81-045 SW-846 8260C-D	

con-test® ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - 1/15/2020 - Project location edited as per COC/client's request.

SW-846 8260C-D

Qualifications:

DL-01

Elevated reporting limits for all volatile compounds due to foaming sample matrix.

Analyte & Samples(s) Qualified:

20A0594-01[TRC-AOC-1-OIL-01]

L-01

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

Bromomethane
B250052-BS1, S044602-CCV1

Chloromethane
B250052-BS1, S044602-CCV1

L-03

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
20A0594-01[TRC-AOC-1-OIL-01], B250052-BLK1, B250052-BS1, S044602-CCV1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
20A0594-01[TRC-AOC-1-OIL-01], B250052-BLK1, B250052-BS1, S044602-CCV1

1,2,4-Trichlorobenzene
20A0594-01[TRC-AOC-1-OIL-01], B250052-BLK1, B250052-BS1, S044602-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromochloromethane
B250052-BS1, S044602-CCV1

Bromomethane
B250052-BS1, S044602-CCV1

Chloromethane
B250052-BS1, S044602-CCV1

Methylene Chloride
B250052-BS1, S044602-CCV1

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The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Kerry K. McGee
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT Sample Description: Work Order: 20A0594

Date Received: 1/14/2020

Field Sample #: TRC-AOC-1-OIL-01 Sampled: 1/14/2020 14:00

Sample ID: 20A0594-01

Sample Matrix: Oil

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Bromobenzene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Bromochloromethane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Bromodichloromethane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Bromoform	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Bromomethane	ND	9.1	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Carbon Tetrachloride	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Chlorobenzene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Chlorodibromomethane	ND	0.91	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Chloroethane	ND	18	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Chloroform	ND	3.6	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Chloromethane	ND	9.1	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
2-Chlorotoluene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
4-Chlorotoluene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,2-Dibromoethane (EDB)	ND	0.91	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Dibromomethane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,2-Dichlorobenzene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,3-Dichlorobenzene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,4-Dichlorobenzene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
trans-1,4-Dichloro-2-butene	ND	3.6	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Dichlorodifluoromethane (Freon 12)	ND	18	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,1-Dichloroethane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,2-Dichloroethane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,1-Dichloroethylene	ND	3.6	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
cis-1,2-Dichloroethylene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
trans-1,2-Dichloroethylene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,2-Dichloropropane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,3-Dichloropropane	ND	0.91	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
2,2-Dichloropropane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,1-Dichloropropene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
cis-1,3-Dichloropropene	ND	0.91	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
trans-1,3-Dichloropropene	ND	0.91	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Hexachlorobutadiene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Methylene Chloride	ND	18	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,1,1,2-Tetrachloroethane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,1,2,2-Tetrachloroethane	ND	0.91	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Tetrachloroethylene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,2,3-Trichlorobenzene	ND	1.8	mg/Kg	2	V-05, L-03	SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,2,4-Trichlorobenzene	ND	1.8	mg/Kg	2	V-05	SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,3,5-Trichlorobenzene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,1,1-Trichloroethane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,1,2-Trichloroethane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Trichloroethylene	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Trichlorofluoromethane (Freon 11)	ND	9.1	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT Sample Description: Work Order: 20A0594

Date Received: 1/14/2020

Field Sample #: TRC-AOC-1-OIL-01 Sampled: 1/14/2020 14:00

Sample ID: 20A0594-01

Sample Matrix: Oil

Sample Flags: DL-01

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,3-Trichloropropane	ND	1.8	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	9.1	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH
Vinyl Chloride	ND	9.1	mg/Kg	2		SW-846 8260C-D	1/15/20	1/15/20 9:14	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		1/15/20 9:14
Toluene-d8	97.7	70-130		1/15/20 9:14
4-Bromofluorobenzene	97.0	70-130		1/15/20 9:14

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT Sample Description: Work Order: 20A0594

Date Received: 1/14/2020

Field Sample #: TRC-AOC-1-OIL-01 Sampled: 1/14/2020 14:00

Sample ID: 20A0594-01

Sample Matrix: Oil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.79	mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH
Aroclor-1221 [1]	ND	0.79	mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH
Aroclor-1232 [1]	ND	0.79	mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH
Aroclor-1242 [1]	ND	0.79	mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH
Aroclor-1248 [1]	ND	0.79	mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH
Aroclor-1254 [1]	ND	0.79	mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH
Aroclor-1260 [1]	ND	0.79	mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH
Aroclor-1262 [1]	ND	0.79	mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH
Aroclor-1268 [1]	ND	0.79	mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH
	0.0		mg/Kg	1		EPA 600 4-81-045	1/14/20	1/15/20 8:56	AYH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.2	30-150		1/15/20 8:56
Decachlorobiphenyl [2]	85.5	30-150		1/15/20 8:56
Tetrachloro-m-xylene [1]	86.3	30-150		1/15/20 8:56
Tetrachloro-m-xylene [2]	88.6	30-150		1/15/20 8:56

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Sample Extraction Data

Prep Method: SW-846 3580A-EPA 600 4-81-045

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0594-01 [TRC-AOC-1-OIL-01]	B249888	0.252	10.0	01/14/20

Prep Method: SW-846 5035/5030B-SW-846 8260C-D

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
20A0594-01 [TRC-AOC-1-OIL-01]	B250052	0.550	5.00	0.5	50	01/15/20

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250052 - SW-846 5035/5030B										
Blank (B250052-BLK1)				Prepared & Analyzed: 01/15/20						
Bromobenzene	ND	0.10	mg/Kg							
Bromochloromethane	ND	0.10	mg/Kg							
Bromodichloromethane	ND	0.10	mg/Kg							
Bromoform	ND	0.10	mg/Kg							
Bromomethane	ND	0.50	mg/Kg							
Carbon Tetrachloride	ND	0.10	mg/Kg							
Chlorobenzene	ND	0.10	mg/Kg							
Chlorodibromomethane	ND	0.050	mg/Kg							
Chloroethane	ND	1.0	mg/Kg							
Chloroform	ND	0.20	mg/Kg							
Chloromethane	ND	0.50	mg/Kg							
2-Chlorotoluene	ND	0.10	mg/Kg							
4-Chlorotoluene	ND	0.10	mg/Kg							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.10	mg/Kg							
1,2-Dibromoethane (EDB)	ND	0.050	mg/Kg							
Dibromomethane	ND	0.10	mg/Kg							
1,2-Dichlorobenzene	ND	0.10	mg/Kg							
1,3-Dichlorobenzene	ND	0.10	mg/Kg							
1,4-Dichlorobenzene	ND	0.10	mg/Kg							
trans-1,4-Dichloro-2-butene	ND	0.20	mg/Kg							
Dichlorodifluoromethane (Freon 12)	ND	1.0	mg/Kg							
1,1-Dichloroethane	ND	0.10	mg/Kg							
1,2-Dichloroethane	ND	0.10	mg/Kg							
1,1-Dichloroethylene	ND	0.20	mg/Kg							
cis-1,2-Dichloroethylene	ND	0.10	mg/Kg							
trans-1,2-Dichloroethylene	ND	0.10	mg/Kg							
1,2-Dichloropropane	ND	0.10	mg/Kg							
1,3-Dichloropropane	ND	0.050	mg/Kg							
2,2-Dichloropropane	ND	0.10	mg/Kg							
1,1-Dichloropropene	ND	0.10	mg/Kg							
cis-1,3-Dichloropropene	ND	0.050	mg/Kg							
trans-1,3-Dichloropropene	ND	0.050	mg/Kg							
Hexachlorobutadiene	ND	0.10	mg/Kg							
Methylene Chloride	ND	1.0	mg/Kg							
1,1,1,2-Tetrachloroethane	ND	0.10	mg/Kg							
1,1,2,2-Tetrachloroethane	ND	0.050	mg/Kg							
Tetrachloroethylene	ND	0.10	mg/Kg							
1,2,3-Trichlorobenzene	ND	0.10	mg/Kg							L-03, V-05
1,2,4-Trichlorobenzene	ND	0.10	mg/Kg							V-05
1,3,5-Trichlorobenzene	ND	0.10	mg/Kg							
1,1,1-Trichloroethane	ND	0.10	mg/Kg							
1,1,2-Trichloroethane	ND	0.10	mg/Kg							
Trichloroethylene	ND	0.10	mg/Kg							
Trichlorofluoromethane (Freon 11)	ND	0.50	mg/Kg							
1,2,3-Trichloropropane	ND	0.10	mg/Kg							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	mg/Kg							
Vinyl Chloride	ND	0.50	mg/Kg							
Surrogate: 1,2-Dichloroethane-d4	*0.0260*		mg/Kg	0.0250		104	70-130			
Surrogate: Toluene-d8	*0.0247*		mg/Kg	0.0250		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0223*		mg/Kg	0.0250		89.3	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B250052 - SW-846 5035/5030B												
LCS (B250052-BS1)				Prepared & Analyzed: 01/15/20								
Bromobenzene	0.0113	0.0023	mg/Kg	0.0113		99.3		70-130				
Bromochloromethane	0.0134	0.0023	mg/Kg	0.0113		118		70-130			V-20	
Bromodichloromethane	0.0118	0.0023	mg/Kg	0.0113		104		70-130				
Bromoform	0.0107	0.0023	mg/Kg	0.0113		94.8		70-130				
Bromomethane	0.0151	0.011	mg/Kg	0.0113		**134**	*	40-130			L-01, V-20	†
Carbon Tetrachloride	0.0125	0.0023	mg/Kg	0.0113		110		70-130				
Chlorobenzene	0.0120	0.0023	mg/Kg	0.0113		106		70-130				
Chlorodibromomethane	0.0115	0.0011	mg/Kg	0.0113		102		70-130				
Chloroethane	0.0121	0.023	mg/Kg	0.0113		107		70-130				
Chloroform	0.0125	0.0045	mg/Kg	0.0113		111		70-130				
Chloromethane	0.0157	0.011	mg/Kg	0.0113		**138**	*	70-130			L-01, V-20	
2-Chlorotoluene	0.0117	0.0023	mg/Kg	0.0113		104		70-130				
4-Chlorotoluene	0.0116	0.0023	mg/Kg	0.0113		103		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0102	0.0023	mg/Kg	0.0113		89.8		70-130				
1,2-Dibromoethane (EDB)	0.0115	0.0011	mg/Kg	0.0113		102		70-130				
Dibromomethane	0.0116	0.0023	mg/Kg	0.0113		102		70-130				
1,2-Dichlorobenzene	0.0117	0.0023	mg/Kg	0.0113		103		70-130				
1,3-Dichlorobenzene	0.0123	0.0023	mg/Kg	0.0113		109		70-130				
1,4-Dichlorobenzene	0.0116	0.0023	mg/Kg	0.0113		103		70-130				
trans-1,4-Dichloro-2-butene	0.0108	0.0045	mg/Kg	0.0113		95.2		70-130				
Dichlorodifluoromethane (Freon 12)	0.0106	0.023	mg/Kg	0.0113		93.4		40-160				†
1,1-Dichloroethane	0.0124	0.0023	mg/Kg	0.0113		110		70-130				
1,2-Dichloroethane	0.0119	0.0023	mg/Kg	0.0113		105		70-130				
1,1-Dichloroethylene	0.0124	0.0045	mg/Kg	0.0113		109		70-130				
cis-1,2-Dichloroethylene	0.0127	0.0023	mg/Kg	0.0113		112		70-130				
trans-1,2-Dichloroethylene	0.0128	0.0023	mg/Kg	0.0113		112		70-130				
1,2-Dichloropropane	0.0125	0.0023	mg/Kg	0.0113		111		70-130				
1,3-Dichloropropane	0.0121	0.0011	mg/Kg	0.0113		107		70-130				
2,2-Dichloropropane	0.0122	0.0023	mg/Kg	0.0113		108		70-130				
1,1-Dichloropropene	0.0132	0.0023	mg/Kg	0.0113		116		70-130				
cis-1,3-Dichloropropene	0.0121	0.0011	mg/Kg	0.0113		106		70-130				
trans-1,3-Dichloropropene	0.0111	0.0011	mg/Kg	0.0113		97.6		70-130				
Hexachlorobutadiene	0.0109	0.0023	mg/Kg	0.0113		95.8		70-160				
Methylene Chloride	0.0137	0.023	mg/Kg	0.0113		121		40-160			V-20	†
1,1,1,2-Tetrachloroethane	0.0119	0.0023	mg/Kg	0.0113		105		70-130				
1,1,2,2-Tetrachloroethane	0.0124	0.0011	mg/Kg	0.0113		110		70-130				
Tetrachloroethylene	0.0125	0.0023	mg/Kg	0.0113		110		70-130				
1,2,3-Trichlorobenzene	0.00719	0.0023	mg/Kg	0.0113		**63.4**	*	70-130			V-05, L-03	
1,2,4-Trichlorobenzene	0.00850	0.0023	mg/Kg	0.0113		75.0		70-130			V-05	
1,3,5-Trichlorobenzene	0.00960	0.0023	mg/Kg	0.0113		84.7		70-130				
1,1,1-Trichloroethane	0.0127	0.0023	mg/Kg	0.0113		112		70-130				
1,1,2-Trichloroethane	0.0123	0.0023	mg/Kg	0.0113		109		70-130				
Trichloroethylene	0.0123	0.0023	mg/Kg	0.0113		108		70-130				
Trichlorofluoromethane (Freon 11)	0.0129	0.011	mg/Kg	0.0113		114		70-130				
1,2,3-Trichloropropane	0.0117	0.0023	mg/Kg	0.0113		104		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0127	0.011	mg/Kg	0.0113		112		70-130				
Vinyl Chloride	0.0130	0.011	mg/Kg	0.0113		115		40-130				†
Surrogate: 1,2-Dichloroethane-d4	*0.0296*		mg/Kg	0.0283		104		70-130				
Surrogate: Toluene-d8	*0.0277*		mg/Kg	0.0283		97.7		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0270*		mg/Kg	0.0283		95.3		70-130				

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249888 - SW-846 3580A										
Blank (B249888-BLK1)				Prepared & Analyzed: 01/14/20						
Aroclor-1016	ND	0.73	mg/Kg							
Aroclor-1016 [2C]	ND	0.73	mg/Kg							
Aroclor-1221	ND	0.73	mg/Kg							
Aroclor-1221 [2C]	ND	0.73	mg/Kg							
Aroclor-1232	ND	0.73	mg/Kg							
Aroclor-1232 [2C]	ND	0.73	mg/Kg							
Aroclor-1242	ND	0.73	mg/Kg							
Aroclor-1242 [2C]	ND	0.73	mg/Kg							
Aroclor-1248	ND	0.73	mg/Kg							
Aroclor-1248 [2C]	ND	0.73	mg/Kg							
Aroclor-1254	ND	0.73	mg/Kg							
Aroclor-1254 [2C]	ND	0.73	mg/Kg							
Aroclor-1260	ND	0.73	mg/Kg							
Aroclor-1260 [2C]	ND	0.73	mg/Kg							
Aroclor-1262	ND	0.73	mg/Kg							
Aroclor-1262 [2C]	ND	0.73	mg/Kg							
Aroclor-1268	ND	0.73	mg/Kg							
Aroclor-1268 [2C]	ND	0.73	mg/Kg							
Total PCB Aroclors	0.0		mg/Kg							
Surrogate: Decachlorobiphenyl	*6.50*		mg/Kg	7.28		89.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*6.73*		mg/Kg	7.28		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	*5.96*		mg/Kg	7.28		81.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*6.38*		mg/Kg	7.28		87.7	30-150			
LCS (B249888-BS1)				Prepared & Analyzed: 01/14/20						
Aroclor-1016	ND	0.72	mg/Kg				85-115			
Aroclor-1016 [2C]	ND	0.72	mg/Kg				85-115			
Aroclor-1221	ND	0.72	mg/Kg				85-115			
Aroclor-1221 [2C]	ND	0.72	mg/Kg				85-115			
Aroclor-1232	ND	0.72	mg/Kg				85-115			
Aroclor-1232 [2C]	ND	0.72	mg/Kg				85-115			
Aroclor-1242	ND	0.72	mg/Kg				85-115			
Aroclor-1242 [2C]	ND	0.72	mg/Kg				85-115			
Aroclor-1248	ND	0.72	mg/Kg				85-115			
Aroclor-1248 [2C]	ND	0.72	mg/Kg				85-115			
Aroclor-1254	ND	0.72	mg/Kg				85-115			
Aroclor-1254 [2C]	ND	0.72	mg/Kg				85-115			
Aroclor-1260	4.2	0.72	mg/Kg	3.70		113	85-115			
Aroclor-1260 [2C]	4.2	0.72	mg/Kg	3.70		113	85-115			
Aroclor-1262	ND	0.72	mg/Kg				85-115			
Aroclor-1262 [2C]	ND	0.72	mg/Kg				85-115			
Aroclor-1268	ND	0.72	mg/Kg				85-115			
Aroclor-1268 [2C]	ND	0.72	mg/Kg				85-115			
Surrogate: Decachlorobiphenyl	*6.47*		mg/Kg	7.22		89.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*6.70*		mg/Kg	7.22		92.9	30-150			
Surrogate: Tetrachloro-m-xylene	*5.92*		mg/Kg	7.22		82.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*6.32*		mg/Kg	7.22		87.6	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B249888 - SW-846 3580A										
LCS Dup (B249888-BSD1)				Prepared & Analyzed: 01/14/20						
Aroclor-1016	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1016 [2C]	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1221	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1221 [2C]	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1232	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1232 [2C]	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1242	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1242 [2C]	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1248	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1248 [2C]	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1254	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1254 [2C]	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1260	3.9	0.70	mg/Kg	3.43		114	85-115	6.37	30	
Aroclor-1260 [2C]	3.9	0.70	mg/Kg	3.43		113	85-115	7.86	30	
Aroclor-1262	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1262 [2C]	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1268	ND	0.70	mg/Kg				85-115	NC	30	
Aroclor-1268 [2C]	ND	0.70	mg/Kg				85-115	NC	30	
Surrogate: Decachlorobiphenyl	*6.36*		mg/Kg	6.97		91.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*6.56*		mg/Kg	6.97		94.1	30-150			
Surrogate: Tetrachloro-m-xylene	*5.80*		mg/Kg	6.97		83.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*6.17*		mg/Kg	6.97		88.5	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 600 4-81-045

LCS

Lab Sample ID: B249888-BS1 Date(s) Analyzed: 01/14/2020 01/14/2020

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	4.2	
	2	0.000	0.000	0.000	4.2	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 600 4-81-045

LCS Dup

Lab Sample ID: B249888-BSD1 Date(s) Analyzed: 01/14/2020 01/14/2020

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	3.9	
	2	0.000	0.000	0.000	3.9	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-01	Elevated reporting limits for all volatile compounds due to foaming sample matrix.
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 600 4-81-045 in Oil	
Aroclor-1016	MA,NY,ME
Aroclor-1016 [2C]	MA,NY,ME
Aroclor-1221	MA,NY,ME
Aroclor-1221 [2C]	MA,NY,ME
Aroclor-1232	MA,NY,ME
Aroclor-1232 [2C]	MA,NY,ME
Aroclor-1242	MA,NY,ME
Aroclor-1242 [2C]	MA,NY,ME
Aroclor-1248	MA,NY,ME
Aroclor-1248 [2C]	MA,NY,ME
Aroclor-1254	MA,NY,ME
Aroclor-1254 [2C]	MA,NY,ME
Aroclor-1260	MA,NY,ME
Aroclor-1260 [2C]	MA,NY,ME
Aroclor-1262	MA,NY,ME
Aroclor-1262 [2C]	MA,NY,ME
Aroclor-1268	MA,NY,ME
Aroclor-1268 [2C]	MA,NY,ME
Total PCB Aroclors	NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

KLM 20A0594

Company Name: TRC
Address: 21 Griffin Rd N Windsor, CT
Phone: 860-298-9692
Project Name: English Station Parcel A
Project Location: 510 Grand Ave, New Haven, CT
Project Number: 263951.000028.000001
Project Manager: Carl Stopper
Con-Test Quote Name/Number: B-20180911 English Station
Invoice Recipient: Carl Stopper
Sampled By: Matt Blumstein

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush Approval Required
1-Day ☒ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: CStopper@trcompanies.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs	Halogenated VOCs	Halogenated solvents	
1	TRC-AOC-1-OIL-01	1/14/20	1400			O	L	X	X	X	

ANALYSIS REQUESTED

# of Containers: 1 1 1
[2] Preservation Code: I M M
[3] Container Code: A V V

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define) Oil

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
Attention: Kerry Magee
Questions, contact Matt Blumstein (TRC) 203-543-2517

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 1/14/20
Received by: (signature) ZZO TM 1700	Date/Time: 1-14-2020
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA:
Other: CT RSRs PCB RL < 1 ppm

Special Requirements
☐ MA MCP Required
☐ MCP Certification Form Required
☒ CT RCP Required
☐ RCP Certification Form Required
☐ MA State DW Required
PWSID #

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP, LLC

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client TRC

Received By JR Date 1-14-2020 Time 1700

How were the samples received? In Cooler T UC | No Cooler T | On Ice _____ | No Ice T

Direct from Sampling _____ | Ambient _____ | Melted Ice _____

Were samples within Temperature? 2-6°C F | By Gun # 2 | Actual Temp - 22.0 | By Blank # _____ | Actual Temp - _____

Was Custody Seal Intact? NA | Were Samples Tampered with? NA

Was COC Relinquished ? T | Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T | Were samples received within holding time? T

Did COC include all pertinent Information? Client T | Analysis T | Sampler Name T

Project T | ID's T | Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F | Who was notified? _____

Are there Rushes? T | Who was notified? Ashlie

Are there Short Holds? F | Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? NA | MS/MSD? F

Proper Media/Containers Used? T | Is splitting samples required? F

Were trip blanks received? F | On COC? F

Do all samples have the proper pH? NA | Acid _____ | Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	1
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: TRC Environmental Corporation - CT

Project Location: 510 Gronk Ave, New Haven, CT

Project Number: 20A0594

Laboratory Sample ID(s):

20A0594-01

Sample Date(s):

01/14/2020

List RCP Methods Used:

SW-846 8260C-D

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 CTDEP 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 and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☑ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this 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.

Lisa A. Worthington

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: Lisa Worthington **Position:** Technical Representative

Printed Name: Lisa A. Worthington **Date:** 01/15/20

Name of Laboratory: Con-Test Analytical Laboratory

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

con-test ANALYTICAL LABORATORY
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Fax: 413-525-6405
Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

KKM 20A0594

Company Name: TRC
Address: 21 Griffin Rd N Windsor, CT
Phone: 860-298-9692
Project Name: English Station Parcel A
Project Location: 510 Grand Ave, New Haven, CT
Project Number: 263951.000028.000001
Project Manager: Carl Stopper
Con-Test Quote Name/Number: B-20180911 English Station
Invoice Recipient: Carl Stopper
Sampled By: Matt Blumstein

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush Approval Required
1-Day ☒ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: CStopper@trcompanies.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	PCBs	Halogenated VOCs	Halogenated Solvents	# of Containers
								1	1	1	1
								1	M	M	2 Preservation Code
								A	V	V	3 Container Code
1	TRC-AOC-1-OIL-01	1/14/20	1400			O	L	X	X	X	

Preserved Metals Samples
○ Field Filtered
○ Lab to Filter

Unpreserved Samples
○ Field Filtered
○ Lab to Filter

Project location is 510A Grand Ave., New Haven, CT per Matt B.
-KKM 1/15/2020

Comments:
Attention: Kerry Magee
Questions, contact Matt Blumstein (TRC) 203-543-2517

Relinquished by: (signature) Date/Time: 1/14/20
Received by: (signature) 22.0 1700 TM Date/Time: 1-14-2020
Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:
Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:

Detection Limit Requirements
MA:
GW: CT RSRs
PCB RL < 1 ppm
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

con-test ANALYTICAL LABORATORY www.contestlabs.com
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP, LLC

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define) O: 1

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

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I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client TRC

Received By JR Date 1-14-2020 Time 1700

How were the samples received? In Cooler T UC No Cooler T On Ice _____ No Ice T

Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C F By Gun # 2 Actual Temp - 22.0

By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Ashlie

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	1
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

January 27, 2020

Carl Stopper
TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095

Project Location: 510A Grand Ave., New Haven, CT
Client Job Number:
Project Number: 263951.000028.000001
Laboratory Work Order Number: 20A0963

Enclosed are results of analyses for samples received by the laboratory on January 22, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee
Project Manager

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Table of Contents (continued)

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095
ATTN: Carl Stopper

REPORT DATE: 1/27/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 263951.000028.000001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20A0963

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510A Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-AOC-1-SOLID-02	20A0963-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 1030	
				SW-846 1311	
				SW-846 6010D	
				SW-846 7470A	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C-D	
				SW-846 8270D-E	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
				SW-846 9095B	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only a select list of metals was requested and reported.

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

2-Fluorobiphenyl
20A0963-01[TRC-AOC-1-SOLID-02]

SW-846 8260C-D

Qualifications:

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,3-Dichlorobenzene
20A0963-01RE1[TRC-AOC-1-SOLID-02]

V-17

Internal standard area <50% of associated calibration standard internal standard area. Reanalysis yielded similar internal standard non-conformance.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

1,2,4-Trichlorobenzene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

1,2,4-Trimethylbenzene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

1,2-Dibromo-3-chloropropane (DB
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

1,2-Dichlorobenzene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

1,3-Dichlorobenzene
20A0963-01[TRC-AOC-1-SOLID-02]

1,4-Dichlorobenzene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

1,4-Dichlorobenzene-d4
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

Hexachlorobutadiene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

Naphthalene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

n-Butylbenzene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

p-Isopropyltoluene (p-Cymene)
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

sec-Butylbenzene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

tert-Butylbenzene
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02]

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Bromomethane
20A0963-01[TRC-AOC-1-SOLID-02], 20A0963-01RE1[TRC-AOC-1-SOLID-02], B250629-BLK1, B250629-BS1, S044893-CCV1

SW-846 8270D-E

Qualifications:

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

4-Chloroaniline
20A0963-01[TRC-AOC-1-SOLID-02], B250530-BLK1, B250530-BS1, B250530-BSD1

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

20A0963-01[TRC-AOC-1-SOLID-02]

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol
20A0963-01[TRC-AOC-1-SOLID-02]

2-Fluorobiphenyl
20A0963-01[TRC-AOC-1-SOLID-02]

2-Fluorophenol
20A0963-01[TRC-AOC-1-SOLID-02]

Nitrobenzene-d5
20A0963-01[TRC-AOC-1-SOLID-02]

Phenol-d6
20A0963-01[TRC-AOC-1-SOLID-02]

p-Terphenyl-d14
20A0963-01[TRC-AOC-1-SOLID-02]

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
S044895-CCV1

Hexachlorocyclopentadiene
20A0963-01[TRC-AOC-1-SOLID-02], B250530-BLK1, B250530-BS1, B250530-BSD1, S044891-CCV1, S044895-CCV1

Pentachlorophenol
S044895-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

Di-n-octylphthalate
S044895-CCV1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02 Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.67	0.26	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Acetone	0.24	0.18	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Acrylonitrile	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Acrylonitrile	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Benzene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Benzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Bromobenzene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Bromobenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Bromodichloromethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Bromodichloromethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Bromoform	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Bromoform	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Bromomethane	ND	0.026	mg/Kg dry	1	V-34	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Bromomethane	ND	0.018	mg/Kg dry	1	V-34	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
2-Butanone (MEK)	ND	0.10	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
2-Butanone (MEK)	ND	0.071	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
n-Butylbenzene	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
n-Butylbenzene	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
sec-Butylbenzene	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
sec-Butylbenzene	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
tert-Butylbenzene	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
tert-Butylbenzene	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Carbon Disulfide	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Carbon Disulfide	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Carbon Tetrachloride	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Carbon Tetrachloride	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Chlorobenzene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Chlorobenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Chlorodibromomethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Chlorodibromomethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Chloroethane	ND	0.051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Chloroethane	ND	0.035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Chloroform	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Chloroform	ND	0.0071	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Chloromethane	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Chloromethane	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
2-Chlorotoluene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
2-Chlorotoluene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
4-Chlorotoluene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
4-Chlorotoluene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,2-Dibromoethane (EDB)	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,2-Dibromoethane (EDB)	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02 Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Dibromomethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Dibromomethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,2-Dichlorobenzene	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,2-Dichlorobenzene	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,3-Dichlorobenzene	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,3-Dichlorobenzene	ND	0.0035	mg/Kg dry	1	V-16	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,4-Dichlorobenzene	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,4-Dichlorobenzene	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
trans-1,4-Dichloro-2-butene	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
trans-1,4-Dichloro-2-butene	ND	0.0071	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,1-Dichloroethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,1-Dichloroethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,2-Dichloroethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,2-Dichloroethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,1-Dichloroethylene	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,1-Dichloroethylene	ND	0.0071	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
cis-1,2-Dichloroethylene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
cis-1,2-Dichloroethylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
trans-1,2-Dichloroethylene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
trans-1,2-Dichloroethylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,2-Dichloropropane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,2-Dichloropropane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,3-Dichloropropane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,3-Dichloropropane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
2,2-Dichloropropane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
2,2-Dichloropropane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,1-Dichloropropene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,1-Dichloropropene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
cis-1,3-Dichloropropene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
cis-1,3-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
trans-1,3-Dichloropropene	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
trans-1,3-Dichloropropene	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Ethylbenzene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Ethylbenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Hexachlorobutadiene	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Hexachlorobutadiene	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
2-Hexanone (MBK)	ND	0.051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
2-Hexanone (MBK)	ND	0.035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Isopropylbenzene (Cumene)	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Isopropylbenzene (Cumene)	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
p-Isopropyltoluene (p-Cymene)	0.0060	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02 Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0071	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Methylene Chloride	ND	0.051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Methylene Chloride	ND	0.035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Naphthalene	ND	0.010	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Naphthalene	ND	0.0071	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
n-Propylbenzene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
n-Propylbenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Styrene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Styrene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,1,1,2-Tetrachloroethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,1,1,2-Tetrachloroethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,1,2,2-Tetrachloroethane	ND	0.0026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,1,2,2-Tetrachloroethane	ND	0.0018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Tetrachloroethylene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Tetrachloroethylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Tetrahydrofuran	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Tetrahydrofuran	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Toluene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Toluene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,2,3-Trichlorobenzene	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,2,3-Trichlorobenzene	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,2,4-Trichlorobenzene	ND	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,2,4-Trichlorobenzene	ND	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,1,1-Trichloroethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,1,1-Trichloroethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,1,2-Trichloroethane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,1,2-Trichloroethane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Trichloroethylene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Trichloroethylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Trichlorofluoromethane (Freon 11)	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Trichlorofluoromethane (Freon 11)	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,2,3-Trichloropropane	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,2,3-Trichloropropane	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,2,4-Trimethylbenzene	0.015	0.0051	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,2,4-Trimethylbenzene	0.0040	0.0035	mg/Kg dry	1	V-17	SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
1,3,5-Trimethylbenzene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
1,3,5-Trimethylbenzene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Vinyl Chloride	ND	0.026	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02 Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Vinyl Chloride	ND	0.018	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
m+p Xylene	ND	0.010	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
m+p Xylene	ND	0.0071	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
o-Xylene	ND	0.0051	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
o-Xylene	ND	0.0035	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF
Xylenes (total)	ND	0.015	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 6:51	MFF
Xylenes (total)	ND	0.011	mg/Kg dry	1		SW-846 8260C-D	1/23/20	1/23/20 9:41	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	81.8	70-130		1/23/20	6:51
1,2-Dichloroethane-d4	82.2	70-130		1/23/20	9:41
Toluene-d8	90.2	70-130		1/23/20	6:51
Toluene-d8	93.1	70-130		1/23/20	9:41
4-Bromofluorobenzene	75.1	70-130		1/23/20	6:51
4-Bromofluorobenzene	84.0	70-130		1/23/20	9:41

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02 Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Acenaphthylene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Aniline	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Anthracene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Benzo(a)anthracene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Benzo(a)pyrene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Benzo(b)fluoranthene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Benzo(g,h,i)perylene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Benzo(k)fluoranthene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Bis(2-chloroethoxy)methane	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Bis(2-chloroethyl)ether	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Bis(2-chloroisopropyl)ether	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Bis(2-Ethylhexyl)phthalate	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
4-Bromophenylphenylether	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Butylbenzylphthalate	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Carbazole	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
4-Chloroaniline	ND	24	mg/Kg dry	10	R-05	SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
4-Chloro-3-methylphenol	ND	24	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2-Chloronaphthalene	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2-Chlorophenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
4-Chlorophenylphenylether	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Chrysene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Dibenz(a,h)anthracene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Dibenzofuran	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Di-n-butylphthalate	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
3,3-Dichlorobenzidine	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2,4-Dichlorophenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Diethylphthalate	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2,4-Dimethylphenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Dimethylphthalate	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
4,6-Dinitro-2-methylphenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2,4-Dinitrophenol	ND	24	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2,4-Dinitrotoluene	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2,6-Dinitrotoluene	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Di-n-octylphthalate	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Fluoranthene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Fluorene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Hexachlorobenzene	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Hexachlorobutadiene	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Hexachlorocyclopentadiene	ND	12	mg/Kg dry	10	V-05	SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Hexachloroethane	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Indeno(1,2,3-cd)pyrene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Isophorone	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2-Methylnaphthalene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02 Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
3/4-Methylphenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Naphthalene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2-Nitroaniline	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
3-Nitroaniline	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
4-Nitroaniline	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Nitrobenzene	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2-Nitrophenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
4-Nitrophenol	ND	24	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
N-Nitrosodi-n-propylamine	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Pentachloronitrobenzene	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Pentachlorophenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Phenanthrene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Phenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Pyrene	ND	6.2	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
Pyridine	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
1,2,4,5-Tetrachlorobenzene	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
1,2,4-Trichlorobenzene	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2,4,5-Trichlorophenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL
2,4,6-Trichlorophenol	ND	12	mg/Kg dry	10		SW-846 8270D-E	1/22/20	1/23/20 13:30	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	*	30-130	S-01	1/23/20 13:30
Phenol-d6	*	30-130	S-01	1/23/20 13:30
Nitrobenzene-d5	*	30-130	S-01	1/23/20 13:30
2-Fluorobiphenyl	*	30-130	S-01	1/23/20 13:30
2,4,6-Tribromophenol	*	30-130	S-01	1/23/20 13:30
p-Terphenyl-d14	*	30-130	S-01	1/23/20 13:30

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02 Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH
Aroclor-1221 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH
Aroclor-1232 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH
Aroclor-1242 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH
Aroclor-1248 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH
Aroclor-1254 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH
Aroclor-1260 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH
Aroclor-1262 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH
Aroclor-1268 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/22/20	1/24/20 13:45	AYH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.7	30-150		1/24/20 13:45
Decachlorobiphenyl [2]	75.4	30-150		1/24/20 13:45
Tetrachloro-m-xylene [1]	80.2	30-150		1/24/20 13:45
Tetrachloro-m-xylene [2]	74.8	30-150		1/24/20 13:45

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02 Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	96000	14000	mg/Kg dry	400		CTDEP ETPH	1/23/20	1/23/20 15:00	KLB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	*	50-150	S-01	1/23/20 15:00

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02 Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	4.5	2.0	mg/Kg dry	1		SW-846 6010D	1/23/20	1/24/20 12:40	TBC
Barium	190	2.0	mg/Kg dry	1		SW-846 6010D	1/23/20	1/24/20 12:40	TBC
Cadmium	ND	0.20	mg/Kg dry	1		SW-846 6010D	1/23/20	1/24/20 12:40	TBC
Chromium	23	0.39	mg/Kg dry	1		SW-846 6010D	1/23/20	1/24/20 12:40	TBC
Lead	71	0.59	mg/Kg dry	1		SW-846 6010D	1/23/20	1/24/20 12:40	TBC
Mercury	0.14	0.029	mg/Kg dry	1		SW-846 7471B	1/23/20	1/24/20 10:36	CJV
Selenium	ND	3.9	mg/Kg dry	1		SW-846 6010D	1/23/20	1/24/20 12:40	TBC
Silver	ND	0.39	mg/Kg dry	1		SW-846 6010D	1/23/20	1/24/20 12:40	TBC

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Project Location: 510A Grand Ave., New Haven, CT Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02 Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.9		% Wt	1		SM 2540G	1/22/20	1/23/20 9:18	CBM
Free Liquid	Absent		present/absent	1		SW-846 9095B	1/23/20	1/23/20 9:00	LL
Ignitability	Present		present/absent	1		SW-846 1030	1/23/20	1/23/20 17:00	DJM
pH @18.2°C	10		pH Units	1		SW-846 9045C	1/22/20	1/22/20 20:00	AIA
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	1/23/20	1/23/20 13:40	EC
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	1/23/20	1/23/20 13:05	EC

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Project Location: 510A Grand Ave., New Haven, CT Sample Description: Work Order: 20A0963

Date Received: 1/22/2020

Field Sample #: TRC-AOC-1-SOLID-02 Sampled: 1/22/2020 12:30

Sample ID: 20A0963-01

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.050	mg/L	1		SW-846 6010D	1/24/20	1/24/20 14:38	MJH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	1/24/20	1/24/20 12:21	CJV
Barium	ND	0.50	mg/L	1		SW-846 6010D	1/24/20	1/24/20 14:38	MJH
Cadmium	ND	0.010	mg/L	1		SW-846 6010D	1/24/20	1/24/20 14:38	MJH
Chromium	ND	0.050	mg/L	1		SW-846 6010D	1/24/20	1/24/20 14:38	MJH
Lead	ND	0.10	mg/L	1		SW-846 6010D	1/24/20	1/24/20 14:38	MJH
Selenium	ND	0.050	mg/L	1		SW-846 6010D	1/24/20	1/24/20 14:38	MJH
Silver	ND	0.050	mg/L	1		SW-846 6010D	1/24/20	1/24/20 14:38	MJH

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250619	30.0	3.00	01/23/20

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250624	01/22/20

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250715	50.0	01/23/20

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250680	1.54	50.0	01/23/20

Prep Method: SW-846 3010A-SW-846 6010D **Leachates were extracted on 1/23/2020 per SW-846 1311 in Batch B250683**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250763	50.0	50.0	01/24/20

Prep Method: SW-846 7470A Prep-SW-846 7470A **Leachates were extracted on 1/23/2020 per SW-846 1311 in Batch B250683**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250764	6.00	6.00	01/24/20

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250651	0.616	50.0	01/23/20

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250593	2.35	10.0	01/22/20

Prep Method: SW-846 5035-SW-846 8260C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250629	2.35	10.0	01/23/20
20A0963-01RE1 [TRC-AOC-1-SOLID-02]	B250629	3.40	10.0	01/23/20

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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250530	30.0	3.00	01/22/20

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250645	25.2	250	01/23/20

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250646	25.2	250	01/23/20

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250616	20.0	01/22/20

SW-846 9095B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0963-01 [TRC-AOC-1-SOLID-02]	B250640	100	100	01/23/20

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250629 - SW-846 5035										
Blank (B250629-BLK1)				Prepared & Analyzed: 01/23/20						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							V-34
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250629 - SW-846 5035										
Blank (B250629-BLK1)				Prepared & Analyzed: 01/23/20						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Xylenes (total)	ND	0.0060	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0393*		mg/Kg wet	0.0500		78.5	70-130			
Surrogate: Toluene-d8	*0.0483*		mg/Kg wet	0.0500		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0511*		mg/Kg wet	0.0500		102	70-130			
LCS (B250629-BS1)				Prepared & Analyzed: 01/23/20						
Acetone	0.178	0.10	mg/Kg wet	0.200		89.2	40-160			
Acrylonitrile	0.0188	0.0060	mg/Kg wet	0.0200		93.9	70-130			
Benzene	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
Bromobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.2	70-130			
Bromodichloromethane	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130			
Bromoform	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130			
Bromomethane	0.0189	0.010	mg/Kg wet	0.0200		94.7	40-160			V-34
2-Butanone (MEK)	0.190	0.040	mg/Kg wet	0.200		95.1	40-160			
n-Butylbenzene	0.0159	0.0020	mg/Kg wet	0.0200		79.4	70-130			
sec-Butylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
tert-Butylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
Carbon Disulfide	0.181	0.0060	mg/Kg wet	0.200		90.4	70-130			
Carbon Tetrachloride	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
Chlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
Chlorodibromomethane	0.0220	0.0010	mg/Kg wet	0.0200		110	40-160			
Chloroethane	0.0180	0.020	mg/Kg wet	0.0200		89.9	70-130			
Chloroform	0.0179	0.0040	mg/Kg wet	0.0200		89.6	70-130			
Chloromethane	0.0174	0.010	mg/Kg wet	0.0200		87.1	40-160			
2-Chlorotoluene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
4-Chlorotoluene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130			
1,2-Dibromoethane (EDB)	0.0227	0.0010	mg/Kg wet	0.0200		113	70-130			
Dibromomethane	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
1,2-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130			
1,3-Dichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.3	70-130			
1,4-Dichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.9	70-130			
trans-1,4-Dichloro-2-butene	0.0187	0.0040	mg/Kg wet	0.0200		93.3	70-130			
Dichlorodifluoromethane (Freon 12)	0.0210	0.020	mg/Kg wet	0.0200		105	40-160			
1,1-Dichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
1,2-Dichloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250629 - SW-846 5035										
LCS (B250629-BS1)				Prepared & Analyzed: 01/23/20						
1,1-Dichloroethylene	0.0166	0.0040	mg/Kg wet	0.0200		83.1	70-130			
cis-1,2-Dichloroethylene	0.0178	0.0020	mg/Kg wet	0.0200		89.2	70-130			
trans-1,2-Dichloroethylene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130			
1,2-Dichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,3-Dichloropropane	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
2,2-Dichloropropane	0.0174	0.0020	mg/Kg wet	0.0200		87.0	70-130			
1,1-Dichloropropene	0.0176	0.0020	mg/Kg wet	0.0200		87.9	70-130			
cis-1,3-Dichloropropene	0.0207	0.0010	mg/Kg wet	0.0200		104	70-130			
trans-1,3-Dichloropropene	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130			
Ethylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130			
Hexachlorobutadiene	0.0199	0.0020	mg/Kg wet	0.0200		99.6	40-160			
2-Hexanone (MBK)	0.186	0.020	mg/Kg wet	0.200		92.9	70-130			
Isopropylbenzene (Cumene)	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
p-Isopropyltoluene (p-Cymene)	0.0179	0.0020	mg/Kg wet	0.0200		89.7	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0196	0.0040	mg/Kg wet	0.0200		97.8	70-130			
Methylene Chloride	0.0191	0.020	mg/Kg wet	0.0200		95.6	70-130			
4-Methyl-2-pentanone (MIBK)	0.187	0.020	mg/Kg wet	0.200		93.7	40-160			
Naphthalene	0.0168	0.0040	mg/Kg wet	0.0200		84.1	70-130			
n-Propylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.3	70-130			
Styrene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
1,1,1,2-Tetrachloroethane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
1,1,2,2-Tetrachloroethane	0.0203	0.0010	mg/Kg wet	0.0200		102	70-130			
Tetrachloroethylene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130			
Tetrahydrofuran	0.0192	0.010	mg/Kg wet	0.0200		96.2	70-130			
Toluene	0.0198	0.0020	mg/Kg wet	0.0200		98.9	70-130			
1,2,3-Trichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130			
1,2,4-Trichlorobenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130			
1,1,1-Trichloroethane	0.0178	0.0020	mg/Kg wet	0.0200		89.0	70-130			
1,1,2-Trichloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Trichloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130			
Trichlorofluoromethane (Freon 11)	0.0185	0.010	mg/Kg wet	0.0200		92.5	40-160			
1,2,3-Trichloropropane	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0191	0.010	mg/Kg wet	0.0200		95.3	70-130			
1,2,4-Trimethylbenzene	0.0167	0.0020	mg/Kg wet	0.0200		83.3	70-130			
1,3,5-Trimethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130			
Vinyl Chloride	0.0170	0.010	mg/Kg wet	0.0200		85.1	70-130			
m+p Xylene	0.0380	0.0040	mg/Kg wet	0.0400		94.9	70-130			
o-Xylene	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
Xylenes (total)	0.0570	0.0060	mg/Kg wet	0.0600		95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0387*		mg/Kg wet	0.0500		77.4	70-130			
Surrogate: Toluene-d8	*0.0487*		mg/Kg wet	0.0500		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0524*		mg/Kg wet	0.0500		105	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250530 - SW-846 3546										
Blank (B250530-BLK1)				Prepared: 01/22/20 Analyzed: 01/23/20						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							R-05
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							V-05
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B250530 - SW-846 3546											
Blank (B250530-BLK1)				Prepared: 01/22/20 Analyzed: 01/23/20							
4-Nitrophenol	ND	0.66	mg/Kg wet								
N-Nitrosodiphenylamine/Diphenylamine	ND	0.34	mg/Kg wet								
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								
Pentachloronitrobenzene	ND	0.34	mg/Kg wet								
Pentachlorophenol	ND	0.34	mg/Kg wet								
Phenanthrene	ND	0.17	mg/Kg wet								
Phenol	ND	0.34	mg/Kg wet								
Pyrene	ND	0.17	mg/Kg wet								
Pyridine	ND	0.34	mg/Kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet								
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet								
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet								
Surrogate: 2-Fluorophenol	*5.23*		mg/Kg wet	6.67		78.5	30-130				
Surrogate: Phenol-d6	*5.57*		mg/Kg wet	6.67		83.5	30-130				
Surrogate: Nitrobenzene-d5	*2.62*		mg/Kg wet	3.33		78.5	30-130				
Surrogate: 2-Fluorobiphenyl	*3.32*		mg/Kg wet	3.33		99.6	30-130				
Surrogate: 2,4,6-Tribromophenol	*5.63*		mg/Kg wet	6.67		84.5	30-130				
Surrogate: p-Terphenyl-d14	*2.81*		mg/Kg wet	3.33		84.4	30-130				
LCS (B250530-BS1)				Prepared: 01/22/20 Analyzed: 01/23/20							
Acenaphthene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140				
Acenaphthylene	1.39	0.17	mg/Kg wet	1.67		83.2	40-140				
Aniline	1.21	0.34	mg/Kg wet	1.67		72.8	40-140				†
Anthracene	1.39	0.17	mg/Kg wet	1.67		83.2	40-140				
Benzo(a)anthracene	1.35	0.17	mg/Kg wet	1.67		80.9	40-140				
Benzo(a)pyrene	1.39	0.17	mg/Kg wet	1.67		83.5	40-140				
Benzo(b)fluoranthene	1.37	0.17	mg/Kg wet	1.67		82.2	40-140				
Benzo(g,h,i)perylene	1.35	0.17	mg/Kg wet	1.67		80.9	40-140				
Benzo(k)fluoranthene	1.38	0.17	mg/Kg wet	1.67		82.6	40-140				
Bis(2-chloroethoxy)methane	1.28	0.34	mg/Kg wet	1.67		76.9	40-140				
Bis(2-chloroethyl)ether	1.28	0.34	mg/Kg wet	1.67		77.0	40-140				
Bis(2-chloroisopropyl)ether	1.67	0.34	mg/Kg wet	1.67		100	40-140				
Bis(2-Ethylhexyl)phthalate	1.17	0.34	mg/Kg wet	1.67		70.1	40-140				
4-Bromophenylphenylether	1.35	0.34	mg/Kg wet	1.67		81.1	40-140				
Butylbenzylphthalate	1.20	0.34	mg/Kg wet	1.67		72.2	40-140				
Carbazole	1.35	0.17	mg/Kg wet	1.67		80.8	40-140				
4-Chloroaniline	1.19	0.66	mg/Kg wet	1.67		71.4	40-140			R-05	†
4-Chloro-3-methylphenol	1.52	0.66	mg/Kg wet	1.67		91.5	30-130				
2-Chloronaphthalene	1.33	0.34	mg/Kg wet	1.67		80.0	40-140				
2-Chlorophenol	1.32	0.34	mg/Kg wet	1.67		79.2	30-130				
4-Chlorophenylphenylether	1.42	0.34	mg/Kg wet	1.67		85.3	40-140				
Chrysene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140				
Dibenz(a,h)anthracene	1.37	0.17	mg/Kg wet	1.67		82.2	40-140				
Dibenzofuran	1.45	0.34	mg/Kg wet	1.67		87.1	40-140				
Di-n-butylphthalate	1.36	0.34	mg/Kg wet	1.67		81.4	40-140				
3,3-Dichlorobenzidine	1.41	0.17	mg/Kg wet	1.67		84.3	40-140				†
2,4-Dichlorophenol	1.45	0.34	mg/Kg wet	1.67		87.2	30-130				
Diethylphthalate	1.39	0.34	mg/Kg wet	1.67		83.7	40-140				
2,4-Dimethylphenol	1.31	0.34	mg/Kg wet	1.67		78.5	30-130				
Dimethylphthalate	1.37	0.34	mg/Kg wet	1.67		82.1	40-140				
4,6-Dinitro-2-methylphenol	1.20	0.34	mg/Kg wet	1.67		72.2	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250530 - SW-846 3546										
LCS (B250530-BS1)				Prepared: 01/22/20 Analyzed: 01/23/20						
2,4-Dinitrophenol	0.897	0.66	mg/Kg wet	1.67		53.8	30-130			
2,4-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.4	40-140			
2,6-Dinitrotoluene	1.43	0.34	mg/Kg wet	1.67		86.1	40-140			
Di-n-octylphthalate	1.16	0.34	mg/Kg wet	1.67		69.9	40-140			
Fluoranthene	1.48	0.17	mg/Kg wet	1.67		89.1	40-140			
Fluorene	1.38	0.17	mg/Kg wet	1.67		82.8	40-140			
Hexachlorobenzene	1.45	0.34	mg/Kg wet	1.67		87.1	40-140			
Hexachlorobutadiene	1.45	0.34	mg/Kg wet	1.67		86.9	40-140			
Hexachlorocyclopentadiene	0.584	0.34	mg/Kg wet	1.67		35.0	30-140			V-05
Hexachloroethane	1.13	0.34	mg/Kg wet	1.67		68.0	40-140			
Indeno(1,2,3-cd)pyrene	1.50	0.17	mg/Kg wet	1.67		90.1	40-140			
Isophorone	1.45	0.34	mg/Kg wet	1.67		86.7	40-140			
2-Methylnaphthalene	1.53	0.17	mg/Kg wet	1.67		91.6	40-140			
2-Methylphenol	1.26	0.34	mg/Kg wet	1.67		75.6	30-130			
3/4-Methylphenol	1.37	0.34	mg/Kg wet	1.67		82.1	30-130			
Naphthalene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140			
2-Nitroaniline	1.60	0.34	mg/Kg wet	1.67		95.8	40-140			
3-Nitroaniline	1.24	0.34	mg/Kg wet	1.67		74.5	40-140			†
4-Nitroaniline	1.37	0.34	mg/Kg wet	1.67		82.4	40-140			
Nitrobenzene	1.42	0.34	mg/Kg wet	1.67		85.2	40-140			
2-Nitrophenol	1.37	0.34	mg/Kg wet	1.67		82.0	30-130			
4-Nitrophenol	1.67	0.66	mg/Kg wet	1.67		100	10-130			
N-Nitrosodiphenylamine/Diphenylamine	1.40	0.34	mg/Kg wet	1.67		84.1	40-140			
N-Nitrosodi-n-propylamine	1.41	0.34	mg/Kg wet	1.67		84.3	40-140			
Pentachloronitrobenzene	1.44	0.34	mg/Kg wet	1.67		86.6	40-140			
Pentachlorophenol	1.12	0.34	mg/Kg wet	1.67		67.2	30-130			
Phenanthrene	1.40	0.17	mg/Kg wet	1.67		83.7	40-140			
Phenol	1.33	0.34	mg/Kg wet	1.67		79.9	20-130			
Pyrene	1.32	0.17	mg/Kg wet	1.67		79.2	40-140			
Pyridine	0.738	0.34	mg/Kg wet	1.67		44.3	10-140			†
1,2,4,5-Tetrachlorobenzene	1.42	0.34	mg/Kg wet	1.67		84.9	40-140			
1,2,4-Trichlorobenzene	1.39	0.34	mg/Kg wet	1.67		83.5	40-140			
2,4,5-Trichlorophenol	1.53	0.34	mg/Kg wet	1.67		91.7	30-130			
2,4,6-Trichlorophenol	1.48	0.34	mg/Kg wet	1.67		88.9	30-130			
Surrogate: 2-Fluorophenol	*5.71*		mg/Kg wet	6.67		85.6	30-130			
Surrogate: Phenol-d6	*6.03*		mg/Kg wet	6.67		90.4	30-130			
Surrogate: Nitrobenzene-d5	*2.85*		mg/Kg wet	3.33		85.5	30-130			
Surrogate: 2-Fluorobiphenyl	*3.68*		mg/Kg wet	3.33		110	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.29*		mg/Kg wet	6.67		94.4	30-130			
Surrogate: p-Terphenyl-d14	*2.92*		mg/Kg wet	3.33		87.5	30-130			
LCS Dup (B250530-BSD1)				Prepared: 01/22/20 Analyzed: 01/23/20						
Acenaphthene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140	5.90	30	
Acenaphthylene	1.30	0.17	mg/Kg wet	1.67		78.0	40-140	6.48	30	
Aniline	0.882	0.34	mg/Kg wet	1.67		52.9	40-140	31.6	50	† ‡
Anthracene	1.35	0.17	mg/Kg wet	1.67		80.8	40-140	2.88	30	
Benzo(a)anthracene	1.31	0.17	mg/Kg wet	1.67		78.9	40-140	2.50	30	
Benzo(a)pyrene	1.30	0.17	mg/Kg wet	1.67		78.0	40-140	6.74	30	
Benzo(b)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.8	40-140	4.22	30	
Benzo(g,h,i)perylene	1.29	0.17	mg/Kg wet	1.67		77.5	40-140	4.22	30	
Benzo(k)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140	4.79	30	
Bis(2-chloroethoxy)methane	1.21	0.34	mg/Kg wet	1.67		72.8	40-140	5.45	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes	
Batch B250530 - SW-846 3546												
LCS Dup (B250530-BSD1)				Prepared: 01/22/20 Analyzed: 01/23/20								
Bis(2-chloroethyl)ether	1.25	0.34	mg/Kg wet	1.67		75.1	40-140	2.47		30		
Bis(2-chloroisopropyl)ether	1.62	0.34	mg/Kg wet	1.67		97.1	40-140	3.06		30		
Bis(2-Ethylhexyl)phthalate	1.13	0.34	mg/Kg wet	1.67		68.1	40-140	2.92		30		
4-Bromophenylphenylether	1.30	0.34	mg/Kg wet	1.67		77.7	40-140	4.31		30		
Butylbenzylphthalate	1.15	0.34	mg/Kg wet	1.67		68.9	40-140	4.65		30		
Carbazole	1.28	0.17	mg/Kg wet	1.67		76.7	40-140	5.18		30		
4-Chloroaniline	0.877	0.66	mg/Kg wet	1.67		52.6	40-140	**30.3**	*	30	R-05	†
4-Chloro-3-methylphenol	1.42	0.66	mg/Kg wet	1.67		85.5	30-130	6.80		30		
2-Chloronaphthalene	1.25	0.34	mg/Kg wet	1.67		75.1	40-140	6.27		30		
2-Chlorophenol	1.28	0.34	mg/Kg wet	1.67		76.9	30-130	2.90		30		
4-Chlorophenylphenylether	1.33	0.34	mg/Kg wet	1.67		79.6	40-140	6.93		30		
Chrysene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140	4.12		30		
Dibenz(a,h)anthracene	1.34	0.17	mg/Kg wet	1.67		80.4	40-140	2.19		30		
Dibenzofuran	1.36	0.34	mg/Kg wet	1.67		81.8	40-140	6.20		30		
Di-n-butylphthalate	1.28	0.34	mg/Kg wet	1.67		76.7	40-140	5.92		30		
3,3-Dichlorobenzidine	1.07	0.17	mg/Kg wet	1.67		64.4	40-140	26.8		30		† ‡
2,4-Dichlorophenol	1.38	0.34	mg/Kg wet	1.67		82.8	30-130	5.18		30		
Diethylphthalate	1.32	0.34	mg/Kg wet	1.67		79.0	40-140	5.78		30		
2,4-Dimethylphenol	1.26	0.34	mg/Kg wet	1.67		75.8	30-130	3.60		30		
Dimethylphthalate	1.29	0.34	mg/Kg wet	1.67		77.6	40-140	5.61		50		
4,6-Dinitro-2-methylphenol	1.14	0.34	mg/Kg wet	1.67		68.3	30-130	5.55		50		
2,4-Dinitrophenol	0.825	0.66	mg/Kg wet	1.67		49.5	30-130	8.40		50		
2,4-Dinitrotoluene	1.28	0.34	mg/Kg wet	1.67		76.8	40-140	3.33		30		
2,6-Dinitrotoluene	1.36	0.34	mg/Kg wet	1.67		81.4	40-140	5.54		30		
Di-n-octylphthalate	1.09	0.34	mg/Kg wet	1.67		65.2	40-140	6.87		30		
Fluoranthene	1.40	0.17	mg/Kg wet	1.67		84.2	40-140	5.63		30		
Fluorene	1.32	0.17	mg/Kg wet	1.67		79.0	40-140	4.70		30		
Hexachlorobenzene	1.40	0.34	mg/Kg wet	1.67		83.9	40-140	3.79		30		
Hexachlorobutadiene	1.37	0.34	mg/Kg wet	1.67		82.1	40-140	5.70		30		
Hexachlorocyclopentadiene	0.565	0.34	mg/Kg wet	1.67		33.9	30-140	3.31		50	V-05	
Hexachloroethane	1.11	0.34	mg/Kg wet	1.67		66.4	40-140	2.47		50		
Indeno(1,2,3-cd)pyrene	1.49	0.17	mg/Kg wet	1.67		89.6	40-140	0.557		50		
Isophorone	1.37	0.34	mg/Kg wet	1.67		82.3	40-140	5.28		30		
2-Methylnaphthalene	1.46	0.17	mg/Kg wet	1.67		87.9	40-140	4.12		30		
2-Methylphenol	1.22	0.34	mg/Kg wet	1.67		73.2	30-130	3.23		30		
3/4-Methylphenol	1.29	0.34	mg/Kg wet	1.67		77.6	30-130	5.64		30		
Naphthalene	1.27	0.17	mg/Kg wet	1.67		76.3	40-140	3.96		30		
2-Nitroaniline	1.50	0.34	mg/Kg wet	1.67		90.1	40-140	6.05		30		
3-Nitroaniline	1.10	0.34	mg/Kg wet	1.67		65.8	40-140	12.4		30		†
4-Nitroaniline	1.26	0.34	mg/Kg wet	1.67		75.6	40-140	8.51		30		
Nitrobenzene	1.38	0.34	mg/Kg wet	1.67		82.6	40-140	3.03		30		
2-Nitrophenol	1.34	0.34	mg/Kg wet	1.67		80.5	30-130	1.87		30		
4-Nitrophenol	1.57	0.66	mg/Kg wet	1.67		94.5	10-130	6.00		50		‡
N-Nitrosodiphenylamine/Diphenylamine	1.34	0.34	mg/Kg wet	1.67		80.2	40-140	4.84		30		
N-Nitrosodi-n-propylamine	1.33	0.34	mg/Kg wet	1.67		79.9	40-140	5.41		30		
Pentachloronitrobenzene	1.36	0.34	mg/Kg wet	1.67		81.7	40-140	5.80		30		
Pentachlorophenol	1.00	0.34	mg/Kg wet	1.67		60.2	30-130	10.9		50		
Phenanthrene	1.34	0.17	mg/Kg wet	1.67		80.7	40-140	3.70		30		
Phenol	1.29	0.34	mg/Kg wet	1.67		77.5	20-130	3.02		30		
Pyrene	1.30	0.17	mg/Kg wet	1.67		77.9	40-140	1.68		30		
Pyridine	0.671	0.34	mg/Kg wet	1.67		40.3	10-140	9.51		50		†
1,2,4,5-Tetrachlorobenzene	1.37	0.34	mg/Kg wet	1.67		82.1	40-140	3.40		30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250530 - SW-846 3546										
LCS Dup (B250530-BSD1)				Prepared: 01/22/20 Analyzed: 01/23/20						
1,2,4-Trichlorobenzene	1.34	0.34	mg/Kg wet	1.67		80.4	40-140	3.69	30	
2,4,5-Trichlorophenol	1.43	0.34	mg/Kg wet	1.67		85.9	30-130	6.58	30	
2,4,6-Trichlorophenol	1.39	0.34	mg/Kg wet	1.67		83.2	30-130	6.64	50	
Surrogate: 2-Fluorophenol	*5.52*		mg/Kg wet	6.67		82.8	30-130			
Surrogate: Phenol-d6	*5.82*		mg/Kg wet	6.67		87.4	30-130			
Surrogate: Nitrobenzene-d5	*2.77*		mg/Kg wet	3.33		83.2	30-130			
Surrogate: 2-Fluorobiphenyl	*3.46*		mg/Kg wet	3.33		104	30-130			
Surrogate: 2,4,6-Tribromophenol	*5.95*		mg/Kg wet	6.67		89.3	30-130			
Surrogate: p-Terphenyl-d14	*2.85*		mg/Kg wet	3.33		85.5	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250593 - SW-846 3540C										
Blank (B250593-BLK1)				Prepared: 01/22/20 Analyzed: 01/24/20						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Total PCB Aroclors	0.0		mg/Kg							
Surrogate: Decachlorobiphenyl	*1.10*		mg/Kg	1.00		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.998*		mg/Kg	1.00		99.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.971*		mg/Kg	1.00		97.1	30-150			
LCS (B250593-BS1)				Prepared: 01/22/20 Analyzed: 01/24/20						
Aroclor-1016	0.85	0.10	mg/Kg	1.00		84.6	40-140			
Aroclor-1016 [2C]	0.86	0.10	mg/Kg	1.00		85.7	40-140			
Aroclor-1260	0.84	0.10	mg/Kg	1.00		83.8	40-140			
Aroclor-1260 [2C]	0.81	0.10	mg/Kg	1.00		81.4	40-140			
Surrogate: Decachlorobiphenyl	*0.937*		mg/Kg	1.00		93.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.907*		mg/Kg	1.00		90.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.863*		mg/Kg	1.00		86.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.843*		mg/Kg	1.00		84.3	30-150			
LCS Dup (B250593-BSD1)				Prepared: 01/22/20 Analyzed: 01/24/20						
Aroclor-1016	0.84	0.10	mg/Kg	1.00		83.6	40-140	1.19	30	
Aroclor-1016 [2C]	0.84	0.10	mg/Kg	1.00		83.9	40-140	2.19	30	
Aroclor-1260	0.83	0.10	mg/Kg	1.00		83.0	40-140	0.968	30	
Aroclor-1260 [2C]	0.81	0.10	mg/Kg	1.00		81.2	40-140	0.294	30	
Surrogate: Decachlorobiphenyl	*0.943*		mg/Kg	1.00		94.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.919*		mg/Kg	1.00		91.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.863*		mg/Kg	1.00		86.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.861*		mg/Kg	1.00		86.1	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250619 - SW-846 3546										
Blank (B250619-BLK1)				Prepared & Analyzed: 01/23/20						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: 2-Fluorobiphenyl	*2.05*		mg/Kg wet	3.33		61.6	50-150			
LCS (B250619-BS1)				Prepared & Analyzed: 01/23/20						
CT ETPH	23.6	10	mg/Kg wet	33.3		70.8	60-120			
Surrogate: 2-Fluorobiphenyl	*2.46*		mg/Kg wet	3.33		73.8	50-150			
LCS Dup (B250619-BSD1)				Prepared & Analyzed: 01/23/20						
CT ETPH	24.3	10	mg/Kg wet	33.3		72.9	60-120	2.92	30	
Surrogate: 2-Fluorobiphenyl	*2.41*		mg/Kg wet	3.33		72.4	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250651 - SW-846 7471										
Blank (B250651-BLK1)				Prepared: 01/23/20 Analyzed: 01/24/20						
Mercury	ND	0.025	mg/Kg wet							
LCS (B250651-BS1)				Prepared: 01/23/20 Analyzed: 01/24/20						
Mercury	8.11	0.39	mg/Kg wet	7.61		107	72.7-127.3			
LCS Dup (B250651-BSD1)				Prepared: 01/23/20 Analyzed: 01/24/20						
Mercury	7.98	0.38	mg/Kg wet	7.61		105	72.7-127.3	1.59	20	
Batch B250680 - SW-846 3050B										
Blank (B250680-BLK1)				Prepared: 01/23/20 Analyzed: 01/24/20						
Arsenic	ND	1.7	mg/Kg wet							
Barium	ND	1.7	mg/Kg wet							
Cadmium	ND	0.17	mg/Kg wet							
Chromium	ND	0.33	mg/Kg wet							
Lead	ND	0.50	mg/Kg wet							
Selenium	ND	3.3	mg/Kg wet							
Silver	ND	0.33	mg/Kg wet							
LCS (B250680-BS1)				Prepared: 01/23/20 Analyzed: 01/24/20						
Arsenic	128	5.1	mg/Kg wet	143		89.3	83.2-117.5			
Barium	388	5.1	mg/Kg wet	415		93.5	82.7-117.6			
Cadmium	51.1	0.51	mg/Kg wet	56.2		90.9	82.9-117.3			
Chromium	85.9	1.0	mg/Kg wet	101		85.1	82.4-116.8			
Lead	111	1.5	mg/Kg wet	125		88.8	82.4-116.8			
Selenium	66.4	10	mg/Kg wet	77.9		85.2	79.3-120.7			
Silver	31.3	1.0	mg/Kg wet	34.3		91.4	81-119.2			
LCS Dup (B250680-BSD1)				Prepared: 01/23/20 Analyzed: 01/24/20						
Arsenic	122	5.0	mg/Kg wet	143		85.1	83.2-117.5	4.74	30	
Barium	377	5.0	mg/Kg wet	415		91.0	82.7-117.6	2.71	20	
Cadmium	54.6	0.50	mg/Kg wet	56.2		97.2	82.9-117.3	6.60	20	
Chromium	85.1	0.99	mg/Kg wet	101		84.3	82.4-116.8	0.980	30	
Lead	105	1.5	mg/Kg wet	125		84.0	82.4-116.8	5.57	30	
Selenium	62.8	9.9	mg/Kg wet	77.9		80.6	79.3-120.7	5.60	30	
Silver	30.3	0.99	mg/Kg wet	34.3		88.3	81-119.2	3.41	30	
Reference (B250680-SRM1) MRL Check				Prepared: 01/23/20 Analyzed: 01/24/20						
Lead	0.432	0.47	mg/Kg wet	0.471		91.7	80-120			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250616 - SW-846 9045C										
LCS (B250616-BS1)				Prepared & Analyzed: 01/22/20						
pH	6.00		pH Units	6.00		100	90-110			
Duplicate (B250616-DUP1)	**Source: 20A0963-01**			Prepared & Analyzed: 01/22/20						
pH	10		pH Units		10			1.12	6.96	
Batch B250645 - SW-846 9014										
Blank (B250645-BLK1)				Prepared & Analyzed: 01/23/20						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B250645-BS1)				Prepared & Analyzed: 01/23/20						
Reactive Cyanide	9.4	0.40	mg/Kg	10.0		94.4	82.8-113			
Batch B250646 - SW-846 9030A										
Blank (B250646-BLK1)				Prepared & Analyzed: 01/23/20						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B250646-BS1)				Prepared & Analyzed: 01/23/20						
Reactive Sulfide	14	2.0	mg/Kg	14.8		97.3	57.6-114			

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QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250763 - SW-846 3010A										
Blank (B250763-BLK1)				Prepared & Analyzed: 01/24/20						
Arsenic	ND	0.050	mg/L							
Barium	ND	0.50	mg/L							
Cadmium	ND	0.010	mg/L							
Chromium	ND	0.050	mg/L							
Lead	ND	0.10	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.050	mg/L							
LCS (B250763-BS1)				Prepared & Analyzed: 01/24/20						
Arsenic	0.506	0.050	mg/L	0.500		101	80-120			
Barium	0.503	0.50	mg/L	0.500		101	80-120			
Cadmium	0.515	0.010	mg/L	0.500		103	80-120			
Chromium	0.491	0.050	mg/L	0.500		98.2	80-120			
Lead	0.493	0.10	mg/L	0.500		98.6	80-120			
Selenium	0.561	0.050	mg/L	0.500		112	80-120			
Silver	0.578	0.050	mg/L	0.500		116	80-120			
LCS Dup (B250763-BSD1)				Prepared & Analyzed: 01/24/20						
Arsenic	0.484	0.050	mg/L	0.500		96.9	80-120	4.31	20	
Barium	0.496	0.50	mg/L	0.500		99.3	80-120	1.29	20	
Cadmium	0.507	0.010	mg/L	0.500		101	80-120	1.44	20	
Chromium	0.483	0.050	mg/L	0.500		96.6	80-120	1.67	20	
Lead	0.474	0.10	mg/L	0.500		94.8	80-120	3.98	20	
Selenium	0.516	0.050	mg/L	0.500		103	80-120	8.40	20	
Silver	0.571	0.050	mg/L	0.500		114	80-120	1.18	20	
Batch B250764 - SW-846 7470A Prep										
Blank (B250764-BLK1)				Prepared & Analyzed: 01/24/20						
Mercury	ND	0.00010	mg/L							
LCS (B250764-BS1)				Prepared & Analyzed: 01/24/20						
Mercury	0.00386	0.00010	mg/L	0.00400		96.6	80-120			
LCS Dup (B250764-BSD1)				Prepared & Analyzed: 01/24/20						
Mercury	0.00387	0.00010	mg/L	0.00400		96.8	80-120	0.170	20	
Matrix Spike (B250764-MS1)		**Source: 20A0963-01**		Prepared & Analyzed: 01/24/20						
Mercury	0.00367	0.00010	mg/L	0.00400	0.0000404	90.7	75-125			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B250593-BS1 Date(s) Analyzed: 01/24/2020 01/24/2020

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.85	
	2	0.000	0.000	0.000	0.86	1.2
Aroclor-1260	1	0.000	0.000	0.000	0.84	
	2	0.000	0.000	0.000	0.81	3.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B250593-BSD1 Date(s) Analyzed: 01/24/2020 01/24/2020

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.84	
	2	0.000	0.000	0.000	0.84	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.83	
	2	0.000	0.000	0.000	0.81	2.4

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-12	Elevated reporting limit due to matrix interference.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-17	Internal standard area <50% of associated calibration standard internal standard area. Reanalysis yielded similar internal standard non-conformance.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Arsenic	NY,CT,NC,ME,NH,VA
Barium	NY,CT,ME,NC,NH,VA
Cadmium	NY,CT,ME,NC,NH,VA
Chromium	NY,CT,ME,NC,NH,VA
Lead	NY,CT,ME,NC,NH,VA
Selenium	CT,ME,NC,NH,NY,VA
Silver	CT,ME,NC,NH,NY,VA
SW-846 7470A in Water	
Mercury	CT,ME,NC,NH,NY,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
SW-846 8260C-D in Soil	
Acetone	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C-D in Soil	
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
Xylenes (total)	NH,NY
SW-846 8270D-E in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Soil	
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D-E in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY
1,3-Dichlorobenzene	NY
1,4-Dichlorobenzene	NY
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D-E in Water	
4-Nitrophenol	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 9095B in Soil	
Free Liquid	NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

20A0963

CHAIN OF CUSTODY RECORD

KKM

Company Name: TRC
Address: 21 Griffin Rd N, Windsor, CT
Phone: 860-298-7692
Project Name: English Station Parcel A
Project Location: 510A Grand Ave, New Haven, CT
Project Number: 263751.000028.000001
Project Manager: Carl Stopper
Con-Test Quote Name/Number: B-20180911 English Station
Invoice Recipient: Carl Stopper
Sampled By: Matt Blumstein

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush Approval Required
1-Day ☒ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: CStopper@trcsolutions.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs	RCRA 8 metals Total/TCLP	VOCs	SVOCs	ETPH	Ignitability	Reactivity	Corrosivity	Paint Filter	pH
1	TRC-AOC1-SOIL-02	1/22/20	1230		X	SOL	U	X	X	X	X	X	X	X	X	X	X

ANALYSIS REQUESTED

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:
Questions call Matt Blumstein
203 543 2517

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time:
Matthew Blumstein	1/22/20
Received by: (signature)	Date/Time:
[illegible] 5:8	1/22/20 5:16pm
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA:
CT: CT RSRs
PCB RL < 1 ppm
Other:

Special Requirements
☐ MA MCP Required
☐ MCP Certification Form Required
☒ CT RCP Required
☐ RCP Certification Form Required
☐ MA State DW Required
PWSID #

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP, LLC*

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client TRC

Received By BBR Date 11/22/20 Time 1916

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 5.8

By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? n/a Were Samples Tampered with? n/a

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis ID's T Sampler Name T

Project T T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Alex, Ashly, Ashley

Are there Short Holds? T Who was notified? ~~Katie~~ Ashley BBR

Is there enough Volume? T

Is there Headspace where applicable? n/a MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid n/a Base n/a

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	4
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-	2	Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

C:\MSDCHEM\2\DATA\B012320\B0123006.D

CT ETPH Discrimination Check

Data File Name B0123006.D
Data File Path C:\MSDCHEM\2\DATA\B012320\
Operator RMW
Date Acquired 1/23/1920 8:37
Acq. Method File EPH04.M
Sample Name ETPH 1500
Instrument Name GCFID2

Name	Ret Time	Target Response	Average Response	*%D+/-20
n-Nonane	1.26	7641398	8596343	11
n-Decane	2.02	7819367	8596343	9
n-Dodecane	3.03	8023410	8596343	7
n-Tetradecane	3.75	8284184	8596343	4
n-Hexadecane	4.37	8455477	8596343	2
n-Octadecane	4.91	8643572	8596343	-1
n-Eicosane	5.46	8804179	8596343	-2
n-Docosane	6.14	8926032	8596343	-4
n-Tetracosane	6.93	9052202	8596343	-5
n-Hexacosane	7.75	9116753	8596343	-6
n-Octacosane	8.49	9159033	8596343	-7
n-Triacontane	9.18	9184649	8596343	-7
n-Dotriacontane	9.82	8867783	8596343	-3
n-Tetratriacontane	10.41	8687712	8596343	-1
n-Hexatriacontane	10.97	8279396	8596343	4

Samples

*One compound allowed %D</=50

20A0445-04RE1
20A0900-01@10X
20A0963-01@400X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: TRC Environmental Corporation - CT

Project Location: 510A Grand Ave., New Haven, CT

Project Number: 20A0963

Laboratory Sample ID(s):

20A0963-01

Sample Date(s):

01/22/2020

List RCP Methods Used:

CTDEP ETPH, SW-846 1311, SW-846 6010D, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C-D, SW-846 8270D-E

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 CTDEP 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 and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☑ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this 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.

Lisa A. Worthington

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: Lisa Worthington **Position:** Technical Representative

Printed Name: Lisa A. Worthington **Date:** 01/24/20

Name of Laboratory: Con-Test Analytical Laboratory

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

con-test® ANALYTICAL LABORATORY
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February 13, 2020

Carl Stopper
TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095

Project Location: 510A Grand Ave., New Haven, CT
Client Job Number:
Project Number: 263951.000028.000001
Laboratory Work Order Number: 20B0447

Enclosed are results of analyses for samples received by the laboratory on February 11, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee
Project Manager

Table of Contents

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TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095
ATTN: Carl Stopper

REPORT DATE: 2/13/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 263951.000028.000001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20B0447

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510A Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-AOC-1-CO-01 (0-0.5")	20B0447-01	Concrete		CTDEP ETPH	
TRC-AOC-1-CO-02 (0-0.5")	20B0447-02	Concrete		CTDEP ETPH	
TRC-AOC-1-CO-03 (0-0.5")	20B0447-03	Concrete		CTDEP ETPH	
TRC-AOC-1-CO-04 (0-0.5")	20B0447-04	Concrete		CTDEP ETPH	
TRC-AOC-1-CO-05 (0-0.5")	20B0447-05	Concrete		CTDEP ETPH	
EB021120-CO	20B0447-06	Equipment Blank Water		CTDEP ETPH	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

2-Fluorobiphenyl

20B0447-01[TRC-AOC-1-CO-01 (0-0.5")], 20B0447-02[TRC-AOC-1-CO-02 (0-0.5")], 20B0447-04[TRC-AOC-1-CO-04 (0-0.5")], 20B0447-05[TRC-AOC-1-CO-05 (0-0.5")]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT Sample Description: Work Order: 20B0447

Date Received: 2/11/2020

Field Sample #: TRC-AOC-1-CO-01 (0-0.5") Sampled: 2/11/2020 11:05

Sample ID: 20B0447-01

Sample Matrix: Concrete

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	17000	4800	mg/Kg	100		CTDEP ETPH	2/11/20	2/12/20 14:03	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	*	50-150	S-01	2/12/20 14:03

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Project Location: 510A Grand Ave., New Haven, CT Sample Description: Work Order: 20B0447

Date Received: 2/11/2020

Field Sample #: TRC-AOC-1-CO-02 (0-0.5") Sampled: 2/11/2020 11:10

Sample ID: 20B0447-02

Sample Matrix: Concrete

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	40000	5000	mg/Kg	100		CTDEP ETPH	2/11/20	2/12/20 14:24	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	*	50-150	S-01	2/12/20 14:24

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Project Location: 510A Grand Ave., New Haven, CT Sample Description: Work Order: 20B0447

Date Received: 2/11/2020

Field Sample #: TRC-AOC-1-CO-03 (0-0.5") Sampled: 2/11/2020 11:15

Sample ID: 20B0447-03

Sample Matrix: Concrete

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1800	500	mg/Kg	10		CTDEP ETPH	2/11/20	2/12/20 13:23	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	62.6	50-150		2/12/20 13:23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT Sample Description: Work Order: 20B0447

Date Received: 2/11/2020

Field Sample #: TRC-AOC-1-CO-04 (0-0.5") Sampled: 2/11/2020 11:20

Sample ID: 20B0447-04

Sample Matrix: Concrete

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	6400	990	mg/Kg	20		CTDEP ETPH	2/11/20	2/12/20 14:03	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	*	50-150	S-01	2/12/20 14:03

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Project Location: 510A Grand Ave., New Haven, CT Sample Description: Work Order: 20B0447

Date Received: 2/11/2020

Field Sample #: TRC-AOC-1-CO-05 (0-0.5") Sampled: 2/11/2020 11:25

Sample ID: 20B0447-05

Sample Matrix: Concrete

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	25000	4800	mg/Kg	100		CTDEP ETPH	2/11/20	2/12/20 13:43	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	*	50-150	S-01	2/12/20 13:43

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Project Location: 510A Grand Ave., New Haven, CT Sample Description: Work Order: 20B0447

Date Received: 2/11/2020

Field Sample #: EB021120-CO Sampled: 2/11/2020 11:45

Sample ID: 20B0447-06

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.15	mg/L	1		CTDEP ETPH	2/11/20	2/12/20 13:03	RDD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorobiphenyl	82.7	50-150		2/12/20 13:03

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20B0447-01 [TRC-AOC-1-CO-01 (0-0.5")]	B252018	6.22	1.00	02/11/20
20B0447-02 [TRC-AOC-1-CO-02 (0-0.5")]	B252018	6.00	1.00	02/11/20
20B0447-03 [TRC-AOC-1-CO-03 (0-0.5")]	B252018	6.00	1.00	02/11/20
20B0447-04 [TRC-AOC-1-CO-04 (0-0.5")]	B252018	6.05	1.00	02/11/20
20B0447-05 [TRC-AOC-1-CO-05 (0-0.5")]	B252018	6.30	1.00	02/11/20

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20B0447-06 [EB021120-CO]	B252001	1000	1.00	02/11/20

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B252001 - SW-846 3510C										
Blank (B252001-BLK1)				Prepared: 02/11/20 Analyzed: 02/12/20						
CT ETPH	ND	0.15	mg/L							
Surrogate: 2-Fluorobiphenyl	*0.0904*		mg/L	0.100		90.4	50-150			
LCS (B252001-BS1)				Prepared: 02/11/20 Analyzed: 02/12/20						
CT ETPH	0.693	0.15	mg/L	1.00		69.3	60-120			
Surrogate: 2-Fluorobiphenyl	*0.0856*		mg/L	0.100		85.6	50-150			
LCS Dup (B252001-BSD1)				Prepared: 02/11/20 Analyzed: 02/12/20						
CT ETPH	0.695	0.15	mg/L	1.00		69.5	60-120	0.305	30	
Surrogate: 2-Fluorobiphenyl	*0.0818*		mg/L	0.100		81.8	50-150			
Batch B252018 - SW-846 3546										
Blank (B252018-BLK1)				Prepared: 02/11/20 Analyzed: 02/12/20						
CT ETPH	ND	50	mg/Kg							
Surrogate: 2-Fluorobiphenyl	*13.8*		mg/Kg	16.7		82.5	50-150			
LCS (B252018-BS1)				Prepared: 02/11/20 Analyzed: 02/12/20						
CT ETPH	124	50	mg/Kg	167		74.6	60-120			
Surrogate: 2-Fluorobiphenyl	*13.2*		mg/Kg	16.7		79.1	50-150			
LCS Dup (B252018-BSD1)				Prepared: 02/11/20 Analyzed: 02/12/20						
CT ETPH	124	50	mg/Kg	167		74.2	60-120	0.551	30	
Surrogate: 2-Fluorobiphenyl	*13.6*		mg/Kg	16.7		81.7	50-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

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Email: info@contestlabs.com

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CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

KLM 2080447

Company Name: TRL
Address: 21 Griffin Rd N. Windsor, CT
Phone: 860-298-4692
Project Name: English Station Parcel A
Project Location: 510A Grand Ave, New Haven, CT
Project Number: 263951.000028.000001
Project Manager: Carl Stopper
Con-Test Quote Name/Number: B-20180911 English Station
Invoice Recipient: Carl Stopper
Sampled By: Matt Blumstein

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☒ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: CStopper@trccompanies.com
Fax To #:

# of Containers	1
² Preservation Code	I
³ Container Code	A

ANALYSIS REQUESTED: ETPH

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	¹Matrix Code	Conc Code	ETPH
1	TRC-AOC-1-CO-01 (0-0.5")	2/11/20	1105			O	U	X
2	TRC-AOC-1-CO-02 (0-0.5")	2/11/20	1110			O	U	X
3	TRC-AOC-1-CO-03 (0-0.5")	2/11/20	1115			O	U	X
4	TRC-AOC-1-CO-04 (0-0.5")	2/11/20	1120			O	U	X
5	TRC-AOC-1-CO-05 (0-0.5")	2/11/20	1125			O	U	X
6	EB021120-CO	2/11/20	1145			W	L	X

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

¹ **Matrix Codes**:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define) CONCRETE

² **Preservation Codes**:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

³ **Container Codes**:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished/Received	Date/Time
Relinquished by: (signature) Matt Blumstein	2/11/20 1410
Received by: (signature) [signature]	2/11/20 2:05
Relinquished by: (signature) [signature]	2/11/20 4:00
Received by: (signature) [signature] 5.9 1600	2/11/2020
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA:
CT: CT RSRs
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP, LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client TRC

Received By LR Date 2-11-2020 Time 1600

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 5.9
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? _____
Are there Rushes? T Who was notified? Mike
Are there Short Holds? F Who was notified? _____
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? F
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? F
Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	1	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	5
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

C:\MSDCHEM\4\DATA\D021120.SEC\D0211047.D

CT ETPH DISCRIMINATION CHECK

Data File Name D0211047.D
Data File Path C:\MSDCHEM\4\DATA\D021120.SEC\
Operator RMW
Date Acquired 2/12/1920 10:03
Acq. Method File EPH11D.M
Sample Name ETPH 1500
Instrument Name GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.61	9808924	11260126	13
C-10	2.26	10197996	11260126	9
C-12	3.19	10814645	11260126	4
C-14	3.91	11233027	11260126	0
C-16	4.52	11457031	11260126	-2
C-18	5.06	11629622	11260126	-3
C-20	5.66	11664964	11260126	-4
C-22	6.40	11674057	11260126	-4
C-24	7.23	11708381	11260126	-4
C-26	8.04	11635058	11260126	-3
C-28	8.78	11676673	11260126	-4
C-30	9.46	11624113	11260126	-3
C-32	10.09	11372631	11260126	-1
C-34	10.69	11333345	11260126	-1
C-36	11.26	11071429	11260126	2

Samples

20B0447-06
20B0447-03@10X
20B0447-05@100X
20B0447-01@100X

*One compound allowed %D</=50%

C:\MSDCHEM\4\DATA\D021120\D0211046.D

CT ETPH DISCRIMINATION CHECK

Data File Name	D0211046.D
Data File Path	C:\MSDCHEM\4\DATA\D021120\
Operator	RMW
Date Acquired	2/12/1920 9:46
Acq. Method File	EPH11D.M
Sample Name	ETPH 1500
Instrument Name	GCFID4

Name	Ret Time	Target Response	Average Response	*%D+/-20
C-9	1.52	7582835	8577058	12
C-10	2.21	7801368	8577058	9
C-12	3.17	8181615	8577058	5
C-14	3.89	8485142	8577058	1
C-16	4.51	8695534	8577058	-1
C-18	5.06	8942095	8577058	-4
C-20	5.67	8972665	8577058	-5
C-22	6.41	9010507	8577058	-5
C-24	7.25	9026647	8577058	-5
C-26	8.06	8940457	8577058	-4
C-28	8.81	8910281	8577058	-4
C-30	9.49	8783737	8577058	-2
C-32	10.13	8553735	8577058	0
C-34	10.73	8485816	8577058	1
C-36	11.31	8283433	8577058	3

Samples

20B0447-04@20X
20B0447-02@100X

*One compound allowed %D</=50%

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: TRC Environmental Corporation - CT

Project Location: 510A Grand Ave., New Haven, CT

Project Number: 20B0447

Laboratory Sample ID(s):

20B0447-01 thru 20B0447-06

Sample Date(s):

02/11/2020

List RCP Methods Used:

CTDEP 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 CTDEP 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 and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5B	Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this 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.

Lisa A. Worthington

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: Lisa Worthington **Position:** Technical Representative

Printed Name: Lisa A. Worthington **Date:** 02/13/20

Name of Laboratory: Con-Test Analytical Laboratory

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

APPENDIX N

Photographs

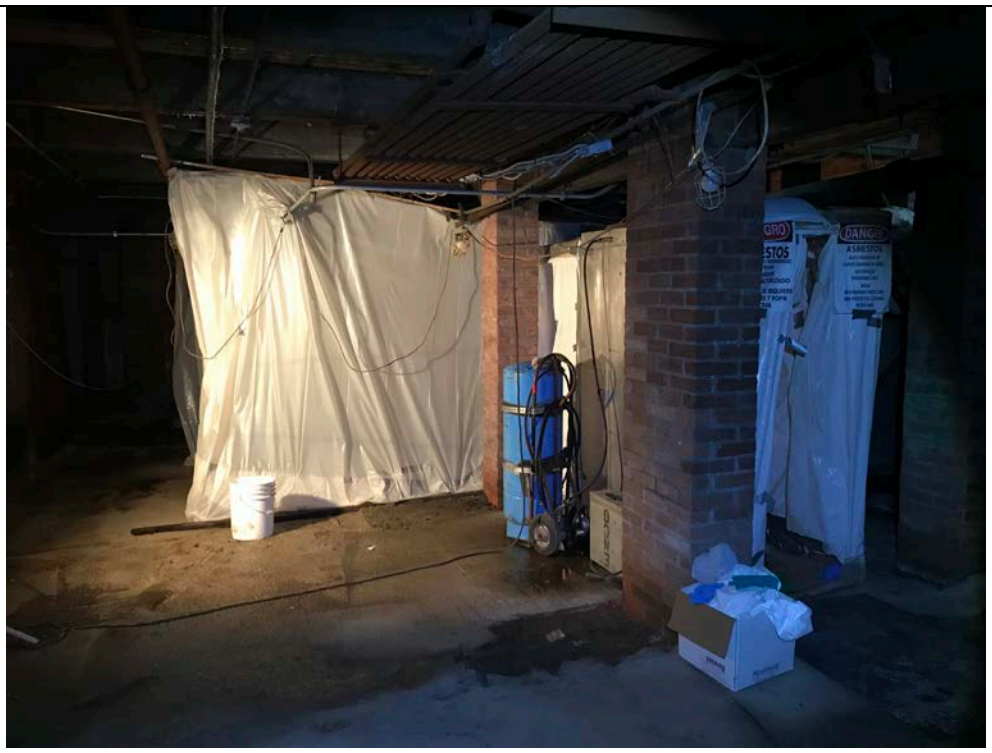

Photo 1: 5/15/19, Station B basement asbestos abatement containment.

Photo 2: 5/15/2019, Station B asbestos abatement waste. Double bagged and sealed in a roll-off dumpster.

Photo 3: 5/17/2019, Station B basement asbestos containment and negative air machine with HEPA filter.

Photo 4: 5/31/2019, Station B interior asbestos abatement containment.

Photo 5: 6/7/2019, Asbestos abatement contractor removing exterior windows from the western side of Station B.

Photo 6: 6/11/2019, Asbestos abatement contractor removing exterior windows from the western side of Station B.

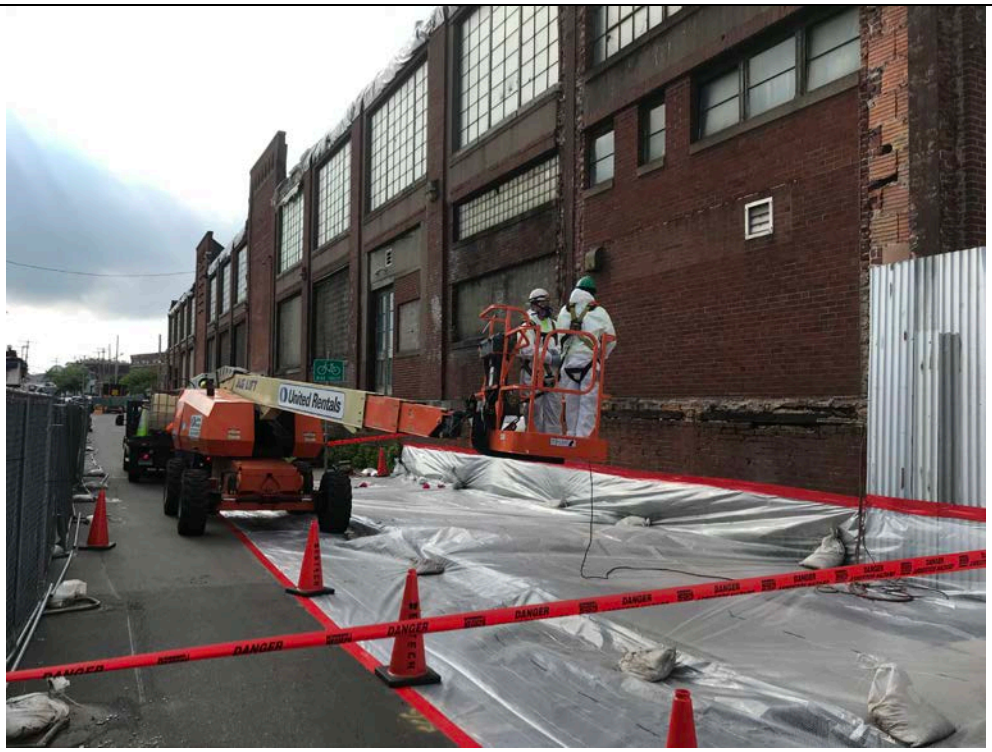

Photo 7: 6/14/2019, Asbestos abatement contractor preparing a work area on the northern side of Station B.

Photo 8: 6/14/2019, United Illuminating disconnecting electrical service to Station B.

Photo 9: 6/14/2019, Asbestos abatement contractor removing exterior windows from the northern side of Station B.

Photo 10: 6/20/2020, Exterior windows removed from the western and part of the northern side of Station B.

Photo 11: 6/21/2019, Asbestos abatement contractor removing exterior windows from the eastern side of Station B.

Photo 12: 6/28/2019, Northeast corner of Station B after all exterior windows have been removed.

Photo 13: 7/3/2019, United Illuminating disconnecting 480-volt electrical service to English Station.

Photo 14: 7/12/2019, Conduit trench for the realignment of 480-volt service.

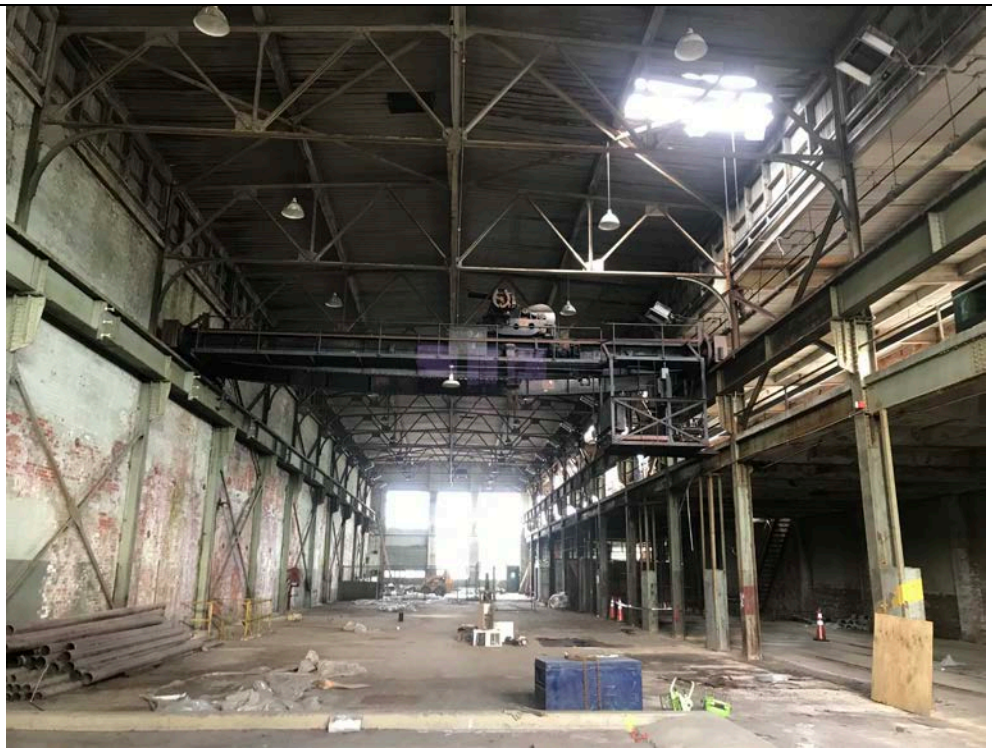

Photo 15: 7/17/2019, Pre-demolition inspection inside Station B.

Photo 16: 7/17/2019, Demolition of the abandoned boat adjacent to Station B.