
LIMITED PHASE II ENVIRONMENTAL SITE INVESTIGATION REPORT

for

PUBLIC BASEBALL FIELD Greenwich, Connecticut

Prepared For:

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LANGAN

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1.0 INTRODUCTION

Langan CT, Inc. (Langan) was retained by AKF Group, LLC (AKF) to perform a Limited Phase II Environmental Site Investigation (ESI) for the public baseball field located on William Street West and Church Street in the Town of Greenwich, Fairfield County, Connecticut (hereafter referred to as the "Subject Property"). The Subject Property encompasses approximately 1.5 acres and is part of three tax lots designated as Parcel ID's 04-4500/S, 04-4502/S, and 04-4506/S by the Greenwich Tax Assessor. The Subject Property is improved with a recreational baseball field. The location of the Subject Property is depicted on Figure 1 (Site Location Plan) and pertinent current and historic Subject Property features are depicted on Figure 2 (Site Layout Map).

Langan's Limited Phase II ESI scope of work was conducted in accordance with our Limited Phase II Scope of Work provided as an attachment to the AKF Proposal No. P_S140086 submitted on May 22, 2014. Sampling was conducted by Langan in general accordance with the Connecticut Department of Energy and Environmental Protection's (CTDEEP) 2007 Site Characterization Guidance Document in order to assess Potential Areas of Concern (PAOCs) at the Subject Property.

The Limited Phase II ESI was conducted in support of a planned redevelopment of the adjacent New Lebanon School property. This report summarizes the work completed, the findings of the investigation, an interpretation of analytical data, and our conclusions and recommendations.

1.1 Background and Purpose

The proposed scope was developed to identify potential environmental issues which may impact redevelopment activities and to evaluate potential remediation costs associated with the proposed site redevelopment.

1.2 Site Description and History

The Subject Property encompasses approximately 1.5 acres and consists of a recreational baseball field. The baseball field was constructed between 1954 and 1957, according to aerial images obtained from Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut. The Subject Property is accessible from Church Street and William Street West, where asphalt parking lots are available. The Subject Property is bound to the north and east by residential properties, by the Byram-Schubert Library to the west, and the New Lebanon School and associated woodland areas to the south.

1.3 Scope of Work

The scope of work for this Limited Phase II ESI was completed on August 11, 2014 and included the following tasks:

- Completion of a ground-penetrating radar (GPR) survey within select areas of the Subject Property in an attempt to determine the possible presence of utilities and/or other subsurface anomalies;
- Environmental oversight of the advancement of three environmental borings (SB-6 through SB-8) using a Geoprobe model 7822 direct push drill rig; and,
- Collection and analysis of three soil samples.

2.0 REGULATORY BACKGROUND

The analytical results for soil obtained during this investigation were compared to the numeric criteria listed in the Connecticut Remediation Standard Regulations (RSRs), sections 22a-133k-1 through 22a-133k-3 of the Regulations of Connecticut State Agencies dated January 1996, and to numeric criteria in the "Approved Criteria for Additional Polluting Substances" dated April 30, 1999. The RSRs were developed by the CTDEEP to define the remediation performance standards for soil and groundwater, specific numeric cleanup criteria, and processes for establishing alternative site-specific standards. The RSRs apply specifically to sites at which remedial actions are required by the CTDEEP under Chapters 445 or 446k of the Connecticut General Statutes (CGS) such as under an administrative order, subsequent to a transfer of an establishment under CGS Section 22a-134a, and to sites that are enrolled in a Voluntary Remediation Program under CGS Sections 22a-133x or 22a-133y.

The Subject Property is not currently regulated under any of these State statutes. However, Langan used the numeric criteria in the RSRs as guidelines to assess the Subject Property and to make conclusions regarding concentrations of regulated compounds detected in soil. The following sections provide a brief summary of the criteria evaluated during this Limited Phase II ESI.

2.1 Soil Criteria

The RSRs provide two criteria for soil, including the Direct Exposure Criteria (DEC) and Pollutant Mobility Criteria (PMC), which are summarized below.

Direct Exposure Criteria

The DEC are established to protect human health from risks associated with direct exposure to pollutants in contaminated soil within 15 feet of the ground surface. Different DEC apply to a property depending on land use, either "residential" or "industrial/commercial", as defined by the CTDEEP. Polluted soil must be remediated to a concentration that is consistent with the Residential Direct Exposure Criteria (RDEC), unless the site is used exclusively for industrial or commercial purposes. However, Langan compared the soil analytical results to both the Residential and Industrial/Commercial Direct Exposure Criteria (I/CDEC), which are summarized in Table 1.

Pollutant Mobility Criteria

The PMC are established to protect groundwater quality by reducing or eliminating the migration of pollutants to the groundwater from contaminated soil. Different PMC apply to a property depending on the quality of groundwater at the site, as designated by the CTDEEP. In a "GB" groundwater classification area the GB PMC apply to soil located above the seasonal high water table. Langan compared the soil analytical results to the GB PMC, which are summarized in Table 1.

3.0 GEOLOGY, HYDROGEOLOGY, AND GROUNDWATER QUALITY

3.1 Geology

According to the Surficial Materials Glacial and Postglacial Deposits for Greenwich, Connecticut (United States Geological Survey/Connecticut Department of Environmental Protection, 2009), soils beneath the Subject Property consist of till of varied thickness, generally non-stratified mixtures of grain-sizes ranging from clay to large boulders that can be sparse or abundant.

Based on information observed during Langan's environmental boring advancement activities, the surficial materials primarily consist of native and non-native brown to grayish-brown, fine to coarse sand, followed by red to gray clay above bedrock.

According to the Bedrock Geologic Map of Connecticut (United States Geological Survey, 1985), bedrock underlying the Subject Property is classified as Harrison Gneiss, which consists of interlayered dark and light-gray, medium grained, foliated gneiss.

Numerous bedrock outcrops were identified on the Subject Property during our site reconnaissance. Bedrock was encountered at depths ranging from 6 to 7 feet below ground surface (bgs) during this Limited Phase II ESI.

3.2 Hydrogeology

According to the Water Quality Classifications Greenwich, CT map (CTDEEP, February 2011) the groundwater underlying the Subject Property is GB. Based on the Connecticut Water Quality Standards and Criteria, Class GB is designated for industrial process water and cooling waters and baseflow for hydraulically-connected water bodies and is presumed not suitable for human consumption without treatment.

According to information on the United States Geological Service (USGS) topographic quadrangle map for Greenwich CT, groundwater flow beneath the Subject Property is inferred to be to the south.

According to the Water Quality Classifications Greenwich, CT map (CTDEEP, February 2011), Byram River, located approximately 1,300 feet to the west of the Subject Property is identified as a Class SB water body. Based on the Connecticut Water Quality Standards and Criteria, Class SB surface water is designated for habitat for marine fish and aquatic life and wildlife; commercial shellfish harvesting; recreation; industrial supply; and navigation.

Groundwater was not encountered above bedrock during this Limited Phase II ESI.

4.0 LIMITED PHASE II ESI METHODOLOGY AND INVESTIGATION ACTIVITIES

4.1 Geophysical Survey

A geophysical survey was completed by Nova Geophysical Services (Nova) of Douglaston, New York, using electromagnetic surveying equipment and ground penetrating radar (GPR). The purpose of the geophysical survey was to complete utility markouts at the proposed test boring locations and/or other subsurface anomalies. The geophysical report and associated images and map are provided as Appendix A.

The GPR survey identified minor anomalies located through the Subject Property area; based on their reflection rates and their proximity (approximately 2 to 5 feet bgs) they were consistent with subsurface utility lines.

4.2 Subsurface Soil Investigation

Three soil borings were installed on August 11, 2014 by American Environmental Assessment Corp. (American) of Hartford, Connecticut with oversight provided by Langan. Soil boring locations (SB-6 through SB-8) are shown on Figure 2.

Soil borings SB-6 through SB-8 were advanced to bedrock refusal, encountered at depths ranging from approximately 6 to 7 feet bgs using the direct push method (i.e., Geoprobe®). Soil cores were collected continuously in dedicated, acetate liners from ground surface to the boring completion depths.

Soil cores were classified for soil type, grain size, moisture content, and texture and evaluated for visual and olfactory indications of environmental impacts. Soil cores were screened for total organic vapors using a photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp. Soil boring logs are included in Appendix B.

Soil samples were collected from areas exhibiting visual or olfactory indications of impacts or with the highest PID readings. In the absence of soil impacts, samples were collected from shallow soils (0 to 5 feet bgs). Upon collection, soil samples were placed in laboratory-supplied containers and submitted to York Analytical Laboratories (York) of Stratford, Connecticut. Soil samples were submitted for analysis of volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs), extractable total petroleum hydrocarbon (ETPH), polychlorinated biphenyls (PCBs), pesticides, herbicides, and Connecticut-listed Metals.

4.3 Soil Sampling Results

Soil analytical results are discussed below and summarized in Table 1, and laboratory analytical reports are included in Appendix C.

Volatile Organic Compounds (VOCs)

Acetone was detected at a concentration of 0.05 mg/kg in Sb-7 (1 to 2 feet bgs), below all applicable CTDEEP RSR criteria. Acetone (a common laboratory contaminant) was also detected in the trip blank and associated batch blank. VOCs were not detected above laboratory reporting limits in the remaining soil samples.

Semi-Volatile Organic Compounds (SVOCs)

SVOCs were not detected above laboratory reporting limits in the remaining soil samples.

Pesticides

4,4'-DDE was detected at a concentration of 0.00285 mg/kg in SB-8 (1 to 2 feet bgs), below all applicable CTDEEP RSR criteria.

4,4'-DDT was detected at a concentration of 0.00277 mg/kg in SB-8 (1 to 2 feet bgs), below all applicable CTDEEP RSR criteria.

Pesticides were not detected above laboratory reporting limits in the remaining soil samples.

Extractable Total Petroleum Hydrocarbons (ETPH)

ETPH was detected in all soil samples at concentrations ranging from 22.6 to 28 mg/kg. All detected ETPH concentrations were below applicable CTDEEP criteria.

Herbicides and PCBs

Herbicides and PCBs were not detected above laboratory reporting limits in any of the soil samples submitted for analysis.

Metals

Arsenic was detected above CT RSR criteria in two of the three soil samples submitted for analysis. Arsenic was detected at a concentration of 144 and 89.2 mg/kg in SB-7 and SB-8, respectively, (both at 1 to 2 feet bgs) above the RDEC and I/CDEC of 10 mg/kg. Metals including antimony, arsenic, barium, beryllium, chromium, copper, lead, nickel, selenium, vanadium, zinc, and/or mercury were detected above laboratory reporting limits but below CTDEEP RSR criteria in all of the soil samples.

4.3.1 Quality Assurance/Quality Control

As a Quality Assurance/Quality Control (QA/QC) measure, a trip blank was submitted to the laboratory with the samples for VOC analysis. Acetone was detected in the trip blank at a concentration of 4 µg/L. The analyte was found in the associated batch blank. For volatiles, acetone is a common lab contaminant and any data less than 10 times the blank value should be considered an artifact.

5.0 CONCEPTUAL SITE MODEL

The development of a conceptual site model (CSM) is a planning tool used for evaluating assessment and remedial actions at a site, using an assessment framework that integrates

new site information as it becomes available. The CSM incorporates site-specific and hydrological information to identify constituents of concern (COCs), the nature of impacts, migration and potential exposure pathways, and points of exposure. The development of a site-specific conceptual model is a critical component in risk-informed cleanup. A well-defined conceptual model of a site contains sufficient information to: (1) identify sources of the impacts, (2) determine the nature and extent of the impacts, (3) identify the dominant fate and transport characteristics of the site, (4) specify potential exposure pathways, and, (5) identify potential receptors that may be impacted.

5.1 Impact Sources and Mechanisms

The Subject Property was investigated to identify potential environmental issues which may impact redevelopment activities and to evaluate remediation costs associated with the proposed site redevelopment. Soil samples were collected across the Subject Property area to identify potential sources of contamination associated with historic fill and/or historic site use.

The potential constituents of concern (COCs) are VOCs, SVOCs, ETPH, and CT-Listed metals.

5.2 Migration Pathways

The primary migration pathway at the Subject Property consists of contamination due to the presence of historic fill. COCs typically associated with historic fill include SVOCs, metals, and ETPH.

Arsenic was detected at concentrations exceeding the RDEC and I/CDEC in two soil samples (SB-7 and SB-8).

Additional potential migration pathways may include volatilization into the air from the soil, and/or leaching from the soil; VOCs were not identified at elevated concentrations in soil.

5.2.1 Infiltration into the Vadose Zone (Soil)

The primary contaminant of concern identified at the Subject Property is arsenic. Because of the presence of poorly-graded sandy soils and clay on top of bedrock with no evidence of overburden groundwater, COCs associated with a release at the Subject Property would likely not migrate from the vadose zone. An additional migration pathway may include volatilization into the air from the soil. Vertical migration of contaminants is

not anticipated as soil impacts were consistent with urban fill characteristics and VOCs were not identified at elevated concentrations in soil.

5.2.2 Migration in the Saturated Zone/Bedrock (Groundwater)

Due to the presence of shallow bedrock throughout the Subject Property, overburden groundwater was not encountered in any of the soil borings. In addition, groundwater is not suitable for human consumption in this area, therefore eliminating a potential exposure pathway associated with groundwater impacts.

5.3 Exposure Pathways

Potential exposure pathways at the Subject Property include direct exposure to metal-impacted soils (arsenic) identified in the upper 2 feet of soil in two of the three borings advanced within the Subject Property. Disturbance of impacted subsurface soils exceeding the DEC during construction could result in a complete exposure pathway; therefore, appropriate dust suppression and implementation of a Health and Safety Plan should be implemented during invasive activities.

Groundwater was not encountered above bedrock in any of the soil borings and groundwater is not suitable for human consumption in this area, therefore eliminating a potential exposure pathway associated with groundwater impacts.

5.4 Preliminary Ecological Screening

Impacts at the Subject Property include the presence of urban fill material. Ecologically sensitive areas are the wetlands located down-gradient of the Subject Property on the adjacent New Lebanon School property. A wetland delineation report, dated August 8, 2014, is provided as Appendix D. Ecological receptors include terrestrial (plants and soil invertebrates), wildlife, and aquatic receptors.

Exposure Pathways Considered

The following exposure pathways were considered in this assessment:

- Direct contact of aquatic receptors to surface water;
- Direct contact of benthic macroinvertebrates with sediment;
- Direct contact of terrestrial plants and soil invertebrates with soil; and,
- Ingestion of surface water and soil by wildlife receptors.

Summary of Ecological Assessment

Based on the impacts identified at the Subject Property, no complete ecological exposure pathways were identified. As stated above, no overburden groundwater was identified on-site, suggesting that impacts are not migrating to the off-site wetlands.

6.0 CONCLUSIONS AND RECOMMENDATIONS

This Limited Phase II ESI included the completion of a geophysical survey, the oversight of three environmental soil borings, and the collection/analysis of three soil samples. Soil analytical testing data obtained during the Limited Phase II ESI was compared to the RDEC, the I/CDEC, and the GB PMC. Our conclusions and recommendations are as follows:

- The Subject Property is underlain by native and non-native brown to grayish-brown, fine to coarse sand, followed by red to gray clay above bedrock. Bedrock was encountered at depths ranging from 6 to 7 feet bgs. Groundwater was not encountered above bedrock during this Limited Phase II ESI.
- Laboratory analytical results of the subsurface material identified impacts from arsenic at concentrations exceeding the RDEC and I/CDEC at depths ranging from 1 to 2 feet bgs. Given the confirmed presence of contaminated soil at the Subject Property (arsenic), we recommend implementation of soil handling and management procedures during site redevelopment to address proper excavation, re-use, handling, and possible off-site disposal of this material.
- Although contaminated soils have been identified at two locations on the Subject Property (see Figure 3), this does not constitute a full characterization of the site soils. If the redevelopment of the Subject Property is going to yield a net export of soils, we would recommend a waste characterization sampling program to characterize those soils slated for export, and better understand potential soil export premiums during construction.

7.0 LIMITATIONS

This Limited Phase II ESI report was completed expressly for AKF Group, LLC for the Subject Property as defined in Section 1.2, for the objectives defined herein for due diligence to assess the potential development of the Subject Property. Langan cannot assume responsibility for the use of this report for any property other than the specific Subject Property addressed in this report or for use by any third party without specific

written authorization from Langan. The conclusions, opinions and recommendations given in this report are based on subsurface conditions ascertained from the analysis of a limited number of samples and from environmental reports prepared by other professionals. Recommendations given are contingent upon one another and no recommendation should be followed independent of the others. Actual conditions encountered may differ substantially from those presented herein and should be brought to our attention so that we may determine how such changes may affect our conclusions, opinions and recommendations.

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TABLES

Table 1
Summary of Soil Analytical Results
Public Baseball Field
Greenwich, Connecticut
140109002

Parameters	Sample ID Sampling Date Depth (ft)	Residential Direct Exposure Criteria	Industrial/Commercial Direct Exposure Criteria	GB Pollution Mobility Criteria	SB-6 8/11/2014 2 to 3	SB-7 8/11/2014 1 to 2	SB-8 8/11/2014 1 to 2
VOCs (mg/kg)							
Acetone	500	1,000	140	ND<0.011	0.05	ND<0.012	
SVOCs (mg/kg)							
	~	~	~	NE	NE	NE	
Herbicides (mg/kg)							
	~	~	~	NE	NE	NE	
Pesticides (mg/kg)							
4,4'-DDE	1.2 **	16.8 **	0.01 **	ND<0.00237	ND<0.00178	0.00285 D	
4,4'-DDT	1.2 **	16.8 **	0.01 **	ND<0.00237	ND<0.00178	0.00277 D	
PCBs (mg/kg)							
Total PCBs	1	10	0.005	ND*<0.0358	ND*<0.027	ND*<0.0271	
ETPH (mg/kg)							
	500	2,500	2,500	22.6	23.7	28	
Metals (mg/kg)							
Antimony	27	8,200	~	0.779	ND<0.539	ND<0.541	
Arsenic	10	10	~	3.75	144	89.2	
Barium	4,700	140,000	~	240	91.2	139	
Beryllium	2	2	~	0.463	ND<0.108	ND<0.108	
Chromium	4,000	51,100	~	52.8	33.6	50.3	
Copper	2,500	76,000	~	13	16.8	22.7	
Lead	500	1,000	~	16.6	35.7	41.6	
Nickel	1,400	7,500	~	31.6	21.5	29.6	
Selenium	340	10,000	~	2.01	ND<1.08	1.59	
Vanadium	470	14,000	~	29.3	35.6	41.2	
Zinc	20,000	610,000	~	52.2	57.2	69	
Mercury	20	610	~	0.0814	0.0741	0.0681	

NOTES:

NE = No exceedance of criteria

ND = Not detected

ND* = Reporting limit above criteria

D = result is from an analysis that required a dilution

~ = this indicates that no regulatory limit has been established for this analyte

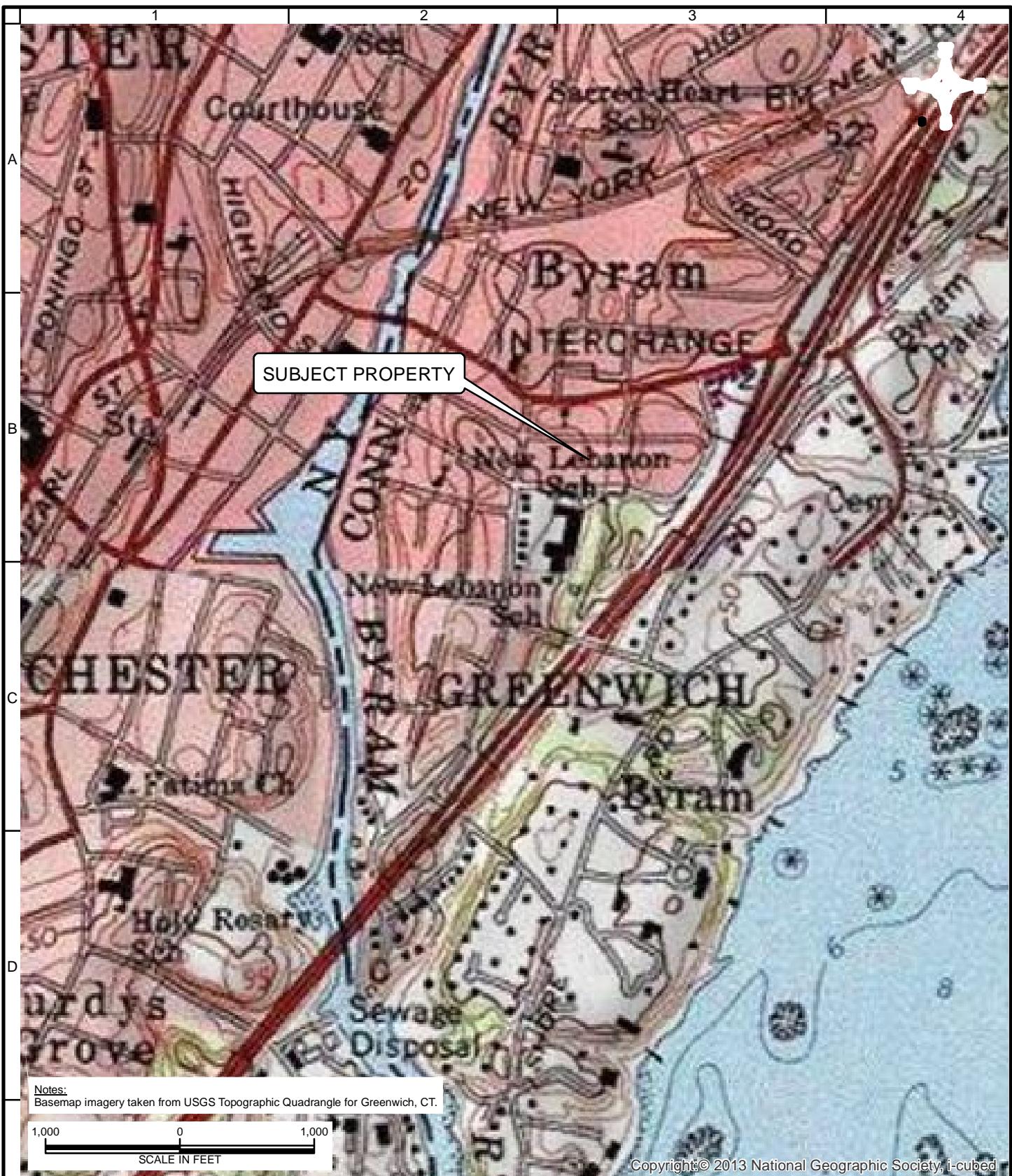
** = For those compounds that do not have certain criteria established within the CTDEEP RSRs effective January 30, 1996, additional polluting substance criteria must be requested for approval by the CTDEEP. The data was compared to the criteria listed in the 2008 Proposed Revisions to the Connecticut Remediation Standard Regulations and the July 2012 Technical Support Document titled "Extractable Petroleum Hydrocarbon Fractions Using the ETPH Analytical Method and Criteria Development".

1) Acetone was detected in the Trip Blank at a concentration of 4 µg/L with a tag of B, meaning the analyte was found in the associated batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

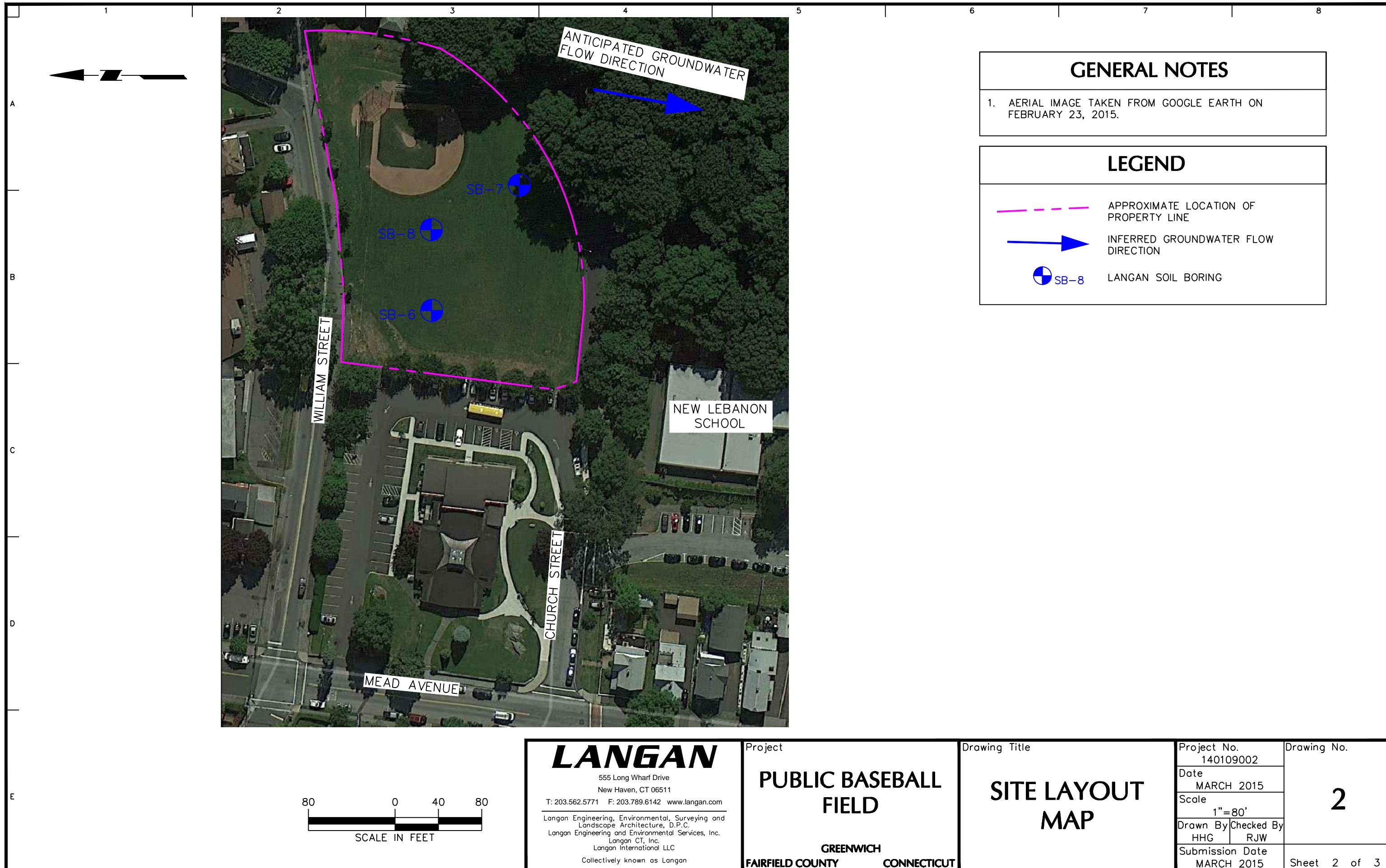
Bold indicates an exceedance of the RDEC

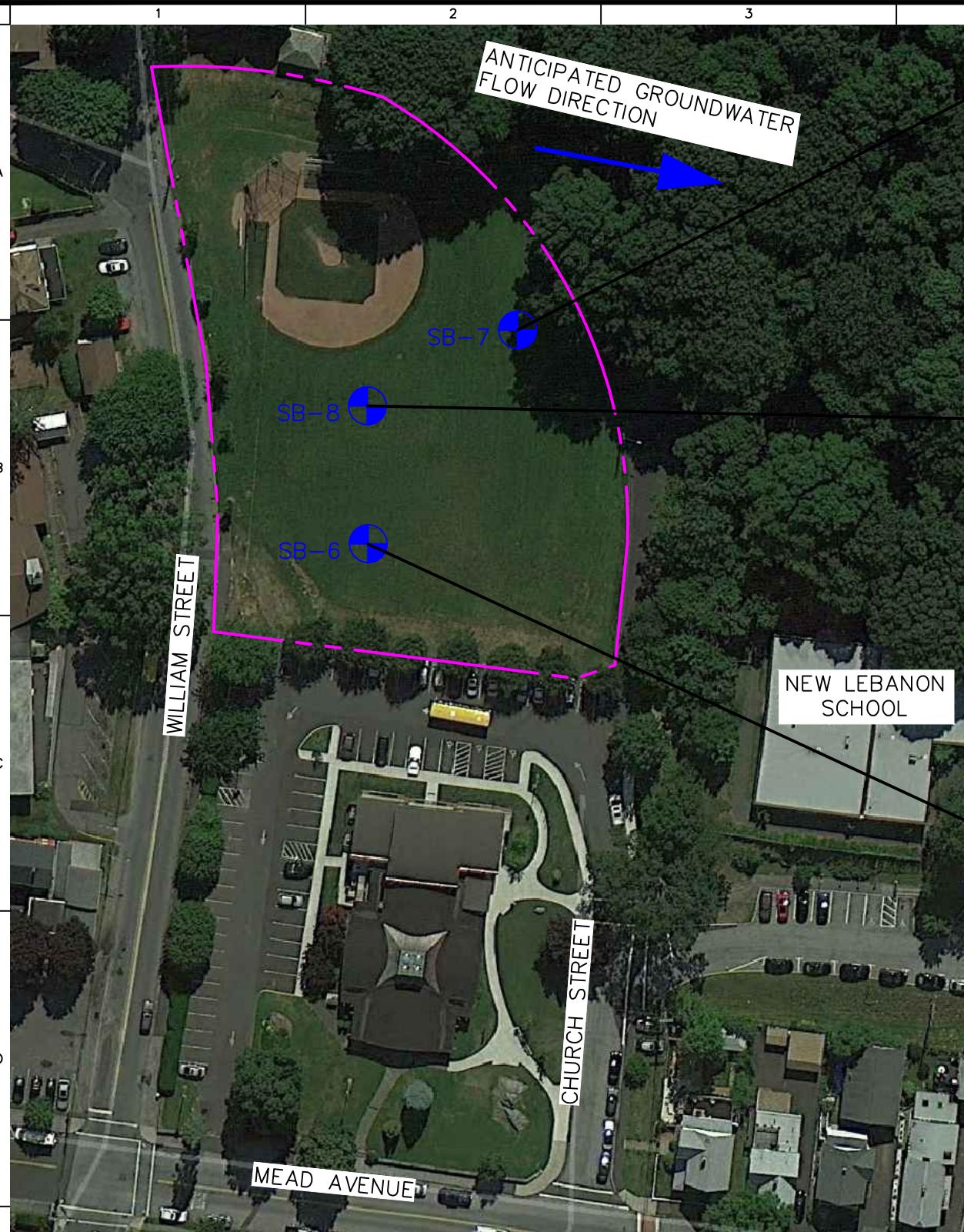
Bold and shading indicates an exceedance of the I/CDEC

FIGURES



Project	Drawing Title	Project No.	Figure
PUBLIC BASEBALL FIELD GREENWICH FAIRFIELD COUNTY CONNECTICUT	SITE LOCATION PLAN	140109002 Date 9/4/2014 Scale 1"=1,000' Drawn By IHG Submission Date 9/4/2014	1





Sample ID	SB-7
Sampling Date	8/11/2014
Depth (ft)	1 to 2
VOCs (mg/kg)	
Acetone	0.05
ETPH (mg/kg)	23.7
Metals (mg/kg)	
Arsenic	144
Barium	91.2
Chromium	33.6
Copper	16.8
Lead	35.7
Nickel	21.5
Vanadium	35.6
Zinc	57.2
Mercury	0.0741

Sample ID	SB-8
Sampling Date	8/11/2014
Depth (ft)	1 to 2
Pesticides (mg/kg)	
4,4'-DDE	0.00285 D
4,4'-DDT	0.00277 D
ETPH (mg/kg)	28
Metals (mg/kg)	
Arsenic	89.20
Barium	139
Chromium	50.3
Copper	22.7
Lead	41.6
Nickel	29.6
Selenium	1.59
Vanadium	41.2
Zinc	69
Mercury	0.0681

Sample ID	SB-6
Sampling Date	8/11/2014
Depth (ft)	2 to 3
ETPH (mg/kg)	22.6
Metals (mg/kg)	
Antimony	0.779
Arsenic	3.75
Barium	240
Beryllium	0.463
Chromium	52.8
Copper	13
Lead	16.6
Nickel	31.6
Selenium	2.01
Vanadium	29.3
Zinc	52.2
Mercury	0.0814

LEGEND

APPROXIMATE LOCATION OF PROPERTY LINE
LANGAN SOIL BORING



GENERAL NOTES

1. AERIAL IMAGE TAKEN FROM GOOGLE EARTH ON FEBRUARY 23, 2015.
2. BOLD INDICATES AN EXCEEDANCE OF THE RDEC
3. BOLD AND SHADING INDICATES AN EXCEEDANCE OF THE I/CDEC
4. D = RESULT IS FROM AN ANALYSIS THAT REQUIRED DILUTION

Analyte	Residential Direct Exposure Criteria	Ind./Comm. Direct Exposure Criteria	GB Pollution Mobility Criteria
VOCs (mg/kg)			
Acetone	500	1,000	140
Pesticides (mg/kg)			
4,4'-DDE	1.2**	16.8**	0.01**
4,4'-DDT	1.2**	16.8**	0.01**
ETPH (mg/kg)	500	2,500	2,500
Metals (mg/kg)			
Antimony	27	8,200	~
Arsenic	10	10	~
Barium	4,700	140,000	~
Beryllium	2	2	~
Chromium	4,000	51,100	~
Copper	2,500	76,000	~
Lead	500	1,000	~
Nickel	1,400	7,500	~
Selenium	340	10,000	~
Vanadium	470	14,000	~
Zinc	20,000	610,000	~
Mercury	20	610	~

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Collectively known as Langan

Project

PUBLIC BASEBALL FIELD

GREENWICH FAIRFIELD COUNTY CONNECTICUT

Drawing Title

SOIL ANALYTICAL RESULTS MAP

Project No.
140109002

Date
MARCH 2015

Scale
1"=80'

Drawn By HHG Checked By RJW

Submission Date MARCH 2015

Drawing No.

3

80 0 40 80
SCALE IN FEET

APPENDIX A

GEOPHYSICAL SURVEY REPORT

GEOPHYSICAL ENGINEERING SURVEY REPORT

NEW LEBABNON SCHOOL
25 MEAD AVENUE
GREENWICH, CONNECTICUT 06830

NOVA PROJECT NUMBER

14-0338

DATED

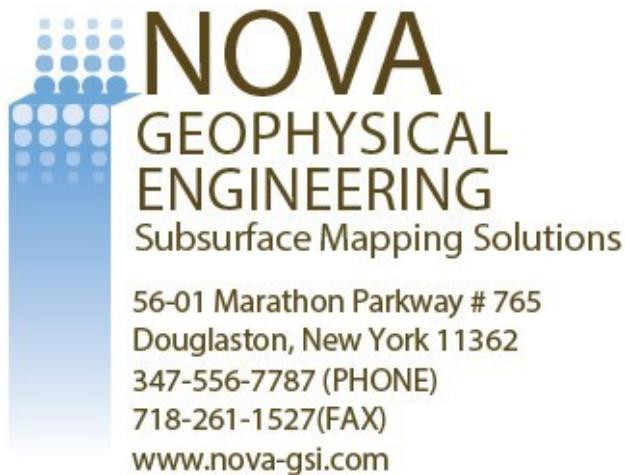
AUGUST 22, 2014

PREPARED FOR:

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August 22, 2014

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Re: Geophysical Engineering Survey (GES) Report

New Lebanon School

25 Mead Avenue

Greenwich, Connecticut 06830

Dear Mr. Wohlstrom:

Nova Geophysical Services (NOVA) is pleased to provide findings of the geophysical engineering survey (GES) at the above referenced project site: 25 Mead Avenue, Greenwich, New York (the "Site"). Please see attached Site Location and Geophysical Survey maps for more details.

INTRODUCTION TO GEOPHYSICAL ENGINEERING SURVEY (GES)

NOVA performed a Geophysical engineering surveys (GES) consisting of Ground Penetrating Radar (GPR) and Electromagnetic (EM) surveys at the project Site. The purpose of this survey is to locate and identify USTs, anomalies, utilities and other substructures and to clear and mark proposed environmental boring areas on August 11th, 2014.

The equipment selected for this investigation was an Electromagnetic Utility Detector (EUD-3) and Noggin's 250 MHz ground penetrating radar (GPR) shielded antenna.

A GPR system consists of a radar control unit, control cable and a transducer (antenna). The control unit transmits a trigger pulse at a normal repetition rate of 250 MHz. The trigger pulse is sent to the transmitter electronics in the transducer via the control cable. The transmitter electronics amplify the trigger pulses into bipolar pulses that are radiated to the surface. The transformed pulses vary in shape and frequency according to the transducer used. In the subsurface, variations of the signal occur at boundaries where there is a dielectric contrast (void, steel, soil type, etc.). Signal reflections travel back to the control unit and are represented as color graphic images for interpolation.

GPR, Magnetics, Electromagnetics, Seismic, Resistivity, Utility Location, Borehole Logging & Camera



GEOPHYSICAL METHODS

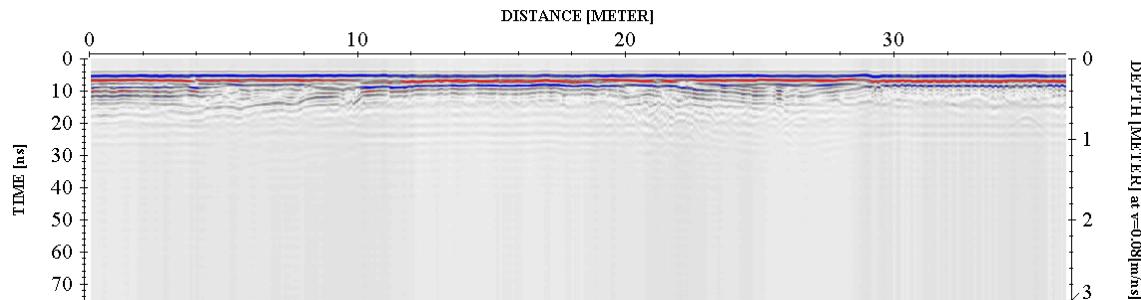
The project site was first screened using the Geonics(tm) electromagnetic detector by carrying the instrument over the project area at the site in 4' x 4' traverses. Finally, GPR profiles were collected over each anomaly and inspected for reflections, which could be indicative of major anomalies and substructures. Nova performed full scale multi-frequency GPR surveys for the targeted depths of approximately 3 to 15 feet below ground surface (bgs) pending quality of the data and sediments settings.

GPR data profiles were collected for the areas of the Site specified by the client. The surveyed areas consisted of paved and none paved areas.

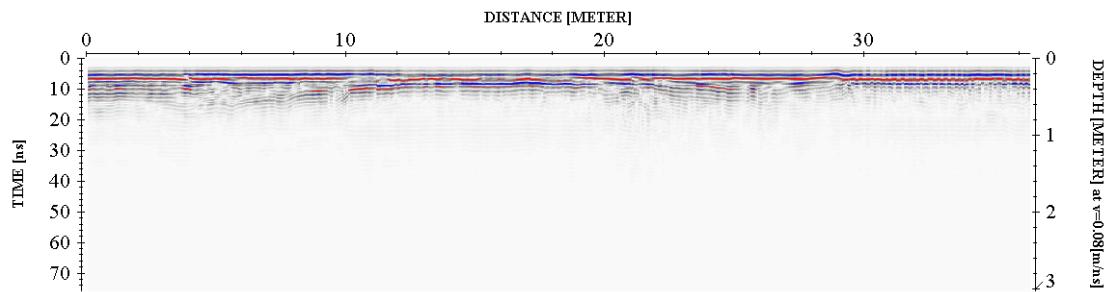
DATA PROCESSING

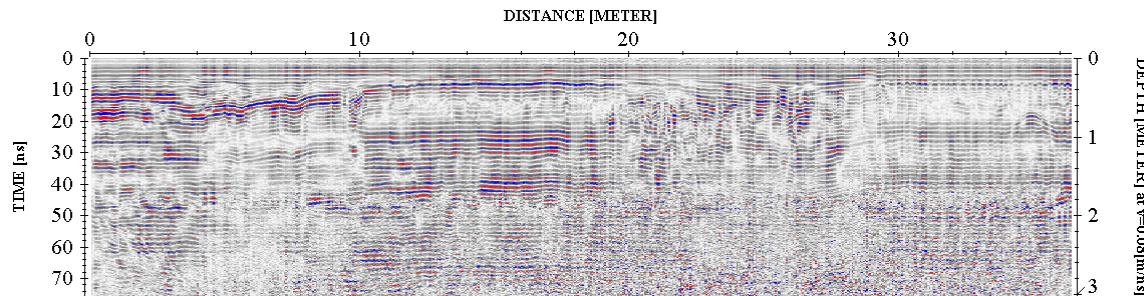
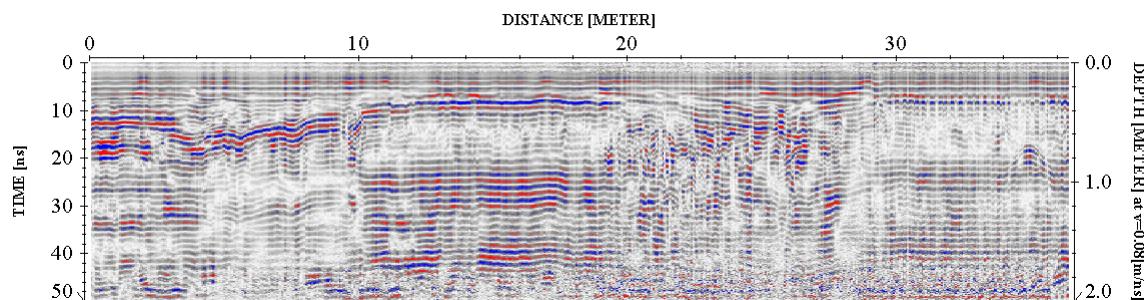
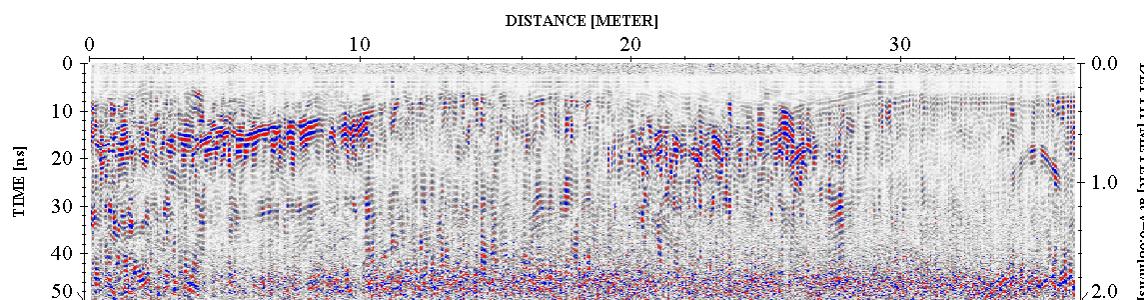
In order to improve the quality of the results and to better identify subsurface anomalies NOVA processed the collected data. The processes flow is briefly described at this section.

Step 1. Import raw RAMAC data to standard processing format



Step 2. Remove instrument noise (dewow)



Step 3. Correct for attenuation losses (*energy decay function*)**Step 4.** Remove static from bottom of profile (*time cut*)**Step 5.** Mute horizontal ringing/noise (*subtracting average*)

The above example shows the significance of data processing. The last image (step 5) has higher resolution than the starting image (raw data – step 1) and describes the subsurface anomalies more accurately.

PHYSICAL SETTINGS

Nova observed following physical conditions at the time of the survey:

The weather: Mostly Cloudy and Rain.

Temp: 74 Degrees (F).

Surface: Paved (concrete-asphalt) & none paved.

GPR, Magnetics, Electromagnetics, Seismic, Resistivity, Utility Location, Borehole Logging & Camera

GEOPHYSICAL ENGINEERING SURVEY/GES REPORT

New Lebanon School

25 Mead Avenue

Greenwich, CT 06830

Geophysical Noise Level (GNL): Geophysical Noise Level (GNL) was low to medium at the time of the survey due to on-site on-going businesses which, created geophysical noise activities. Therefore no quality EM data was collected or analyzed and GPR data was limited.

RESULTS

The results of the geophysical engineering survey (GES) identified following at the project Site:

- GES identified a major anomaly located along the eastern portion of the project site building. Based on its reflection rate and proximity, this anomaly was approximately 20 feet long by 8 feet in diameter and consistent with an UST. Nova also observed a fill port and a vent pipe which were associated with this anomaly.
- GES identified disturbed soil area along the western portion of the project site. However, no EM data was available and disturbances identified with the GPR was not consistent with any major anomaly.
- GES identified scattered anomalies consistent with fill materials. All of the identified scattered anomalies were clearly marked during the field survey.
- GES identified minor anomalies located throughout of the project area. Based on their reflection rates and their proximity (approximately 2 to 5 feet bgs) they were consistent with subsurface utility lines.
- Nova cleared and marked all of the proposed boring locations at the time of the survey.
- Geophysical Survey Plan portrays the areas investigated during the geophysical survey.

If you have any questions please do not hesitate to contact the undersigned.

Sincerely,

NOVA Geophysical Services



Levent Eskicakit, P.G., E.P.
Project Engineer

Attachments:

Figure 1 Site Location Map
Geophysical Survey Plan
Geophysical Images

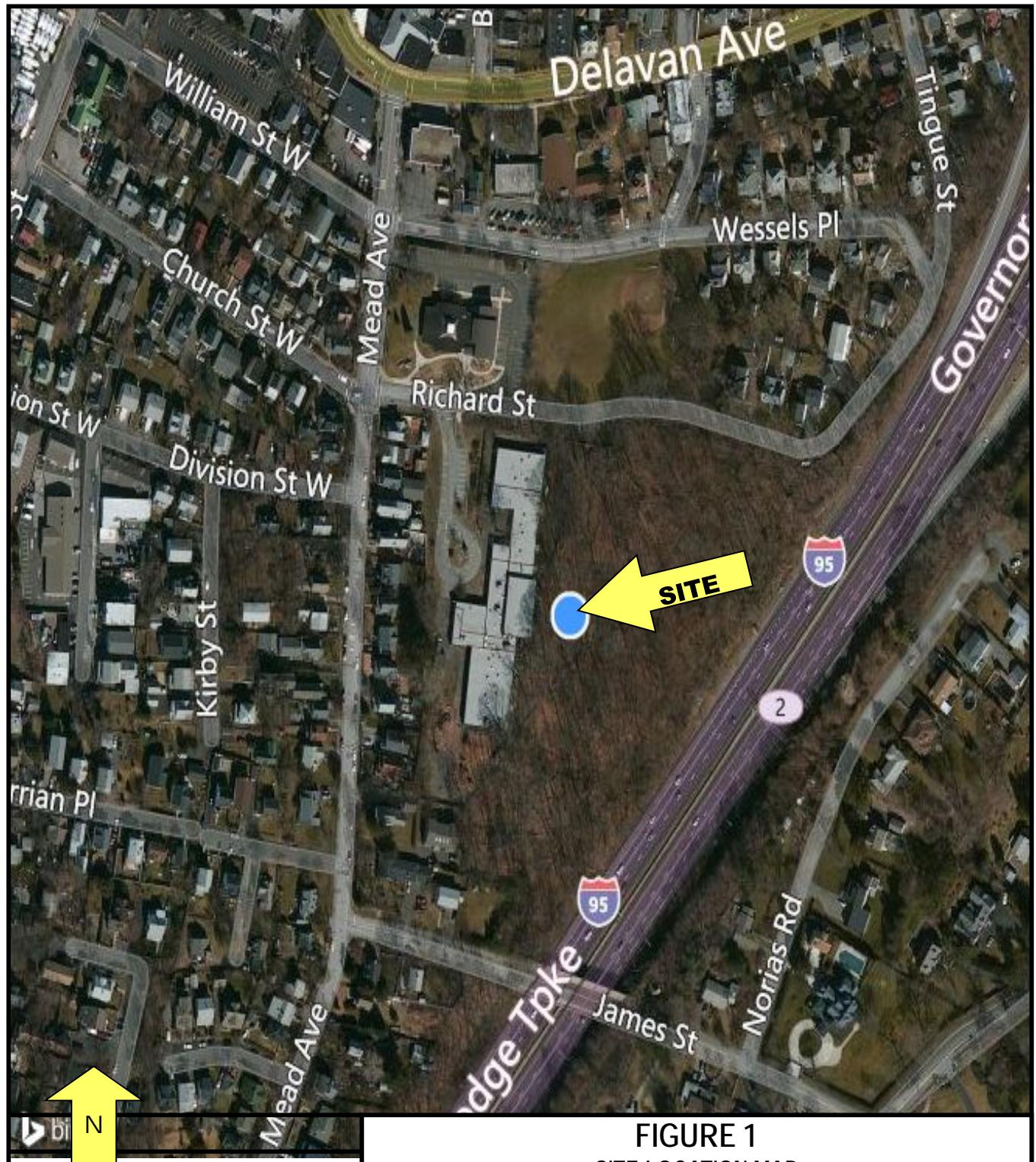


FIGURE 1
SITE LOCATION MAP

NOVA

Geophysical Services

Subsurface Mapping Solutions

56-01 Marathon Pkwy, # 765, Douglaston, NY11362
(347) 556-7787 Fax (718) 261-1528

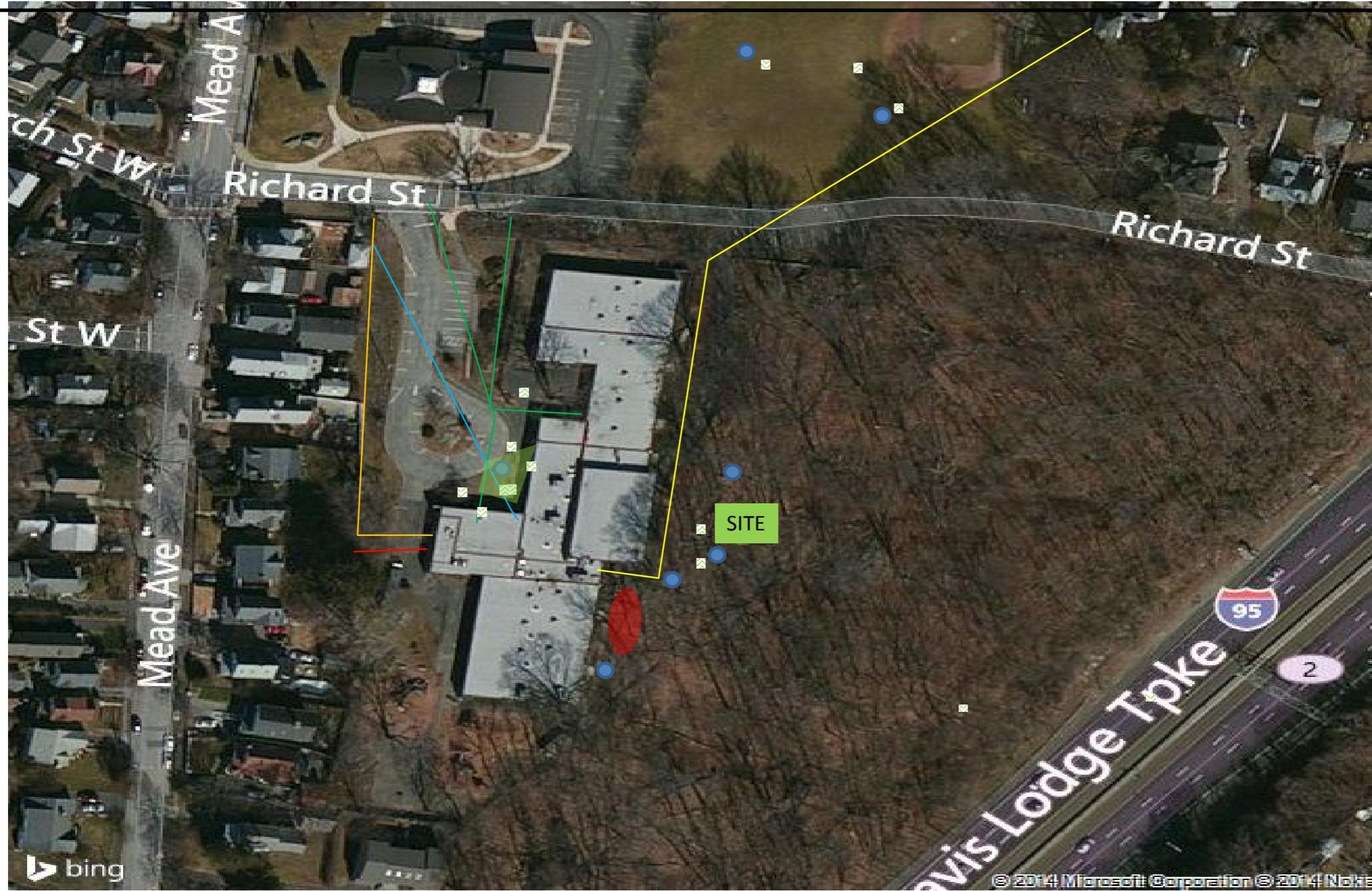
www.nova-gsi.com

SITE:

New Lebanon School
25 Mead Avenue
Greenwich, Connecticut 06830

SCALE:

See Map



NOVA Geophysical Services	GEOPHYSICAL SURVEY	INFORMATION
<p>Subsurface Mapping Solutions 56-01 Marathon Parkway, # 765 Douglaston, New York11362 Phone (347) 556-7787 * Email info@nova-gsi.com www.nova-gsi.com</p>	<p>SITE : New Lebanon School 25 Mead Avenue, Greenwich, CT</p> <p>CLIENT: Langan Engineering & Environmental Services</p> <p>DATE: August 11th 2014</p> <p>Scale See Map</p>	<p> Project Area</p> <p> Major Anomaly (UST)</p> <p> Scattered Anomalies</p> <p> Evidence of Disturbed Soil</p> <p> Geophysical Noise Areas (NO DATA)</p>

GEOPHYSICAL IMAGES

Lebanon School

25 Mead Avenue, Greenwich, Connecticut

August 11th, 2014



GEOPHYSICAL IMAGES

Lebanon School

25 Mead Avenue, Greenwich, Connecticut

August 11th, 2014



Proposed Boring Area



Proposed Boring Area



Proposed Boring Area

GEOPHYSICAL IMAGES

Lebanon School

25 Mead Avenue, Greenwich, Connecticut

August 11th, 2014



APPENDIX B

SOIL BORING LOGS

PROJECT	New Lebanon School		PROJECT NO.	140109001		
LOCATION	25 Mead Avenue, Greenwich, CT		ELEVATION AND DATUM			
DRILLING AGENCY	American Environmental		DATE STARTED	8.11.14	DATE FINISHED	8.11.14
DRILLING EQUIPMENT	Geoprobe 7822 DT		COMPLETION DEPTH	7'	ROCK DEPTH	7'
SIZE AND TYPE OF BIT			NO. SAMPLES	DIST.	UNDIST.	CORE
CASING			WATER LEVEL	FIRST	COMPL.	24 HR.
CASING HAMMER	WEIGHT	DROP	FOREMAN	Floyd		
SAMPLER	2" OD Macro core		INSPECTOR	H. Griesbach		
SAMPLER HAMMER	WEIGHT	DROP	REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)			

PID (ppm)	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES			
			NO. LOC.	TYPE	REC'D. FT.	PENETRAT. RESIST. BLK IN.
0.0	1' Topsoil Brown to orange, M-F SAND, sm-clay, sm-silt, tr-f- gravel		1			
			2	N	38/60	
			3			
			4			
			5			
			6	N	30/60	
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			

(dry)

(slightly moist)

no staining, no odor

1200 sample 2-3'

no staining, no odor

Refusal @ 7'

PROJECT	New Lebanon School		PROJECT NO.	140109001			
LOCATION	25 Mead Avenue, Greenwich, CT		ELEVATION AND DATUM				
DRILLING AGENCY	American Environmental		DATE STARTED	8.11.14		DATE FINISHED	8.11.14
DRILLING EQUIPMENT	Geoprobe 7822 DT		COMPLETION DEPTH	6'		ROCK DEPTH	6'
SIZE AND TYPE OF BIT			NO. SAMPLES	DIST.	1	UNDIST.	CORE
CASING			WATER LEVEL	FIRST	—	COMPL.	24 HR.
CASING HAMMER	WEIGHT	DROP	FOREMAN	Floyd			
SAMPLER	2" OD Macro Core		INSPECTOR	H. Griesbach			
SAMPLER HAMMER	WEIGHT	DROP					

PbD (ppm)	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	REC'D. FT.	PENETR. RESIST. BLK/IN.	
0.0	1' Topsoil Brown to orange, M-F SAND, sm-clay, sm-silt, tr-f-gravel		1				no staining, no odor
			2				
			3	ST	MC	0	
			4				
			5				
			6	ST	8		1220 sample 1-2'
			7				
			8				
			9				
			10				
			11				
			12				
			13				
			14				

PROJECT New Lebanon School			PROJECT NO. 140109001				
LOCATION 25 Mead Avenue, Greenwich, CT			ELEVATION AND DATUM				
DRILLING AGENCY American Environmental			DATE STARTED 8.11.14		DATE FINISHED 8.11.14		
DRILLING EQUIPMENT Geoprobe 7822 DT			COMPLETION DEPTH 6'		ROCK DEPTH 6'		
SIZE AND TYPE OF BIT			NO. SAMPLES	DIST.	UNDIST.		
CASING			WATER LEVEL	FIRST	COMPL.		
CASING HAMMER	WEIGHT	DROP	FOREMAN Floyd				
SAMPLER 2" OD Macro Core			INSPECTOR H. Griesbach				
SAMPLER HAMMER	WEIGHT	DROP	SAMPLES				
PID (ppm)	SAMPLE DESCRIPTION		DEPTH SCALE	NO. LOC.	TYPE REC'D FT. H/Q	PENETR. RESIST. BL/6 in.	REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
0.0	1' Topsoil Brown to orange, M-F SAND, sm-clay, sm-silt, tr-f-gravel			1			no staining, no odor
				2			↓ 1245 sample 1-2'
				3			
				4			
				5			
				6			no staining, no odor
	0.0 Brown CLAY, sm-f-sand, tr-silt, tr-f-gravel			7			Refusal @ 6'
				8			
				9			
				10			
				11			
				12			
				13			

APPENDIX C

LABORATORY REPORTS



Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Hannah Griesbach

Report Date: 03/03/2015

Client Project ID: Public Baseball Field
York Project (SDG) No.: 14H0523

Revision No. 4.0

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 03/03/2015
Client Project ID: Public Baseball Field
York Project (SDG) No.: 14H0523

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Hannah Griesbach

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 11, 2014 and listed below. The project was identified as your project: **Public Baseball Field**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
14H0523-06	SB-6 2-3'	Soil	08/11/2014	08/11/2014
14H0523-07	SB-7 1-2'	Soil	08/11/2014	08/11/2014
14H0523-08	SB-8 1-2'	Soil	08/11/2014	08/11/2014
14H0523-11	TB-1	Water	08/11/2014	08/11/2014

General Notes for York Project (SDG) No.: 14H0523

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Date: 03/03/2015

Benjamin Gulizia
Laboratory Director





Sample Information

Client Sample ID: SB-6 2-3'

York Sample ID: 14H0523-06

York Project (SDG) No.
14H0523

Client Project ID
Public Baseball Field

Matrix
Soil

Collection Date/Time
August 11, 2014 12:00 pm

Date Received
08/11/2014

Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
67-64-1	Acetone	ND		ug/kg dry	2.8	11	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
71-43-2	Benzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
108-86-1	Bromobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
75-25-2	Bromoform	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS



Sample Information

Client Sample ID: SB-6 2-3'

York Sample ID: 14H0523-06

York Project (SDG) No.

14H0523

Client Project ID

Public Baseball Field

Matrix

Soil

Collection Date/Time

August 11, 2014 12:00 pm

Date Received

08/11/2014

Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
75-09-2	Methylene chloride	ND		ug/kg dry	2.8	11	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.8	11	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.5	11	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
100-42-5	Styrene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	5.5	11	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
108-88-3	Toluene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	08/15/2014 08:23	08/15/2014 19:37	SS



Sample Information

Client Sample ID: SB-6 2-3'		York Sample ID: 14H0523-06
<u>York Project (SDG) No.</u> 14H0523	<u>Client Project ID</u> Public Baseball Field	<u>Matrix</u> Soil <u>Collection Date/Time</u> August 11, 2014 12:00 pm <u>Date Received</u> 08/11/2014

Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries											
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	109 %				67-130					
460-00-4	Surrogate: p-Bromofluorobenzene	95.4 %				75-127					
2037-26-5	Surrogate: Toluene-d8	104 %				90-112					

Semi-Volatiles, CT RCP BNA List

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
62-53-3	Aniline	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
120-12-7	Anthracene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
218-01-9	Chrysene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
86-74-8	Carbazole	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR



Sample Information

Client Sample ID: SB-6 2-3'

York Sample ID: 14H0523-06

York Project (SDG) No.
14H0523

Client Project ID
Public Baseball Field

Matrix
Soil

Collection Date/Time
August 11, 2014 12:00 pm

Date Received
08/11/2014

Semi-Volatiles, CT RCP BNA List

Sample Prepared by Method: EPA 3545A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
131-11-3	Dimethyl phthalate	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	179	717	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	358	717	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
206-44-0	Fluoranthene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
86-73-7	Fluorene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
118-74-1	Hexachlorobenzene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
67-72-1	Hexachloroethane	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
78-59-1	Isophorone	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
95-48-7	2-Methylphenol	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
91-20-3	Naphthalene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
99-09-2	3-Nitroaniline	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
100-01-6	4-Nitroaniline	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
88-74-4	2-Nitroaniline	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
98-95-3	Nitrobenzene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
88-75-5	2-Nitrophenol	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
100-02-7	4-Nitrophenol	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
87-86-5	Pentachlorophenol	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
85-01-8	Phenanthrene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
108-95-2	Phenol	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
129-00-0	Pyrene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
110-86-1	Pyridine	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42



Sample Information

Client Sample ID: SB-6 2-3'

York Sample ID: 14H0523-06

York Project (SDG) No.
14H0523

Client Project ID
Public Baseball Field

Matrix
Soil

Collection Date/Time
August 11, 2014 12:00 pm

Date Received
08/11/2014

Semi-Volatiles, CT RCP BNA List

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
Surrogate Recoveries											
367-12-4	<i>Surrogate: 2-Fluorophenol</i>	34.2 %				10-105					
4165-62-2	<i>Surrogate: Phenol-d5</i>	31.7 %				10-118					
4165-60-0	<i>Surrogate: Nitrobenzene-d5</i>	29.5 %				10-140					
321-60-8	<i>Surrogate: 2-Fluorobiphenyl</i>	27.8 %				10-126					
118-79-6	<i>Surrogate: 2,4,6-Tribromophenol</i>	25.0 %				10-150					
1718-51-0	<i>Surrogate: Terphenyl-d14</i>	63.9 %				10-137					

Pesticides, CT RCP Target List

Sample Prepared by Method: EPA 3545_A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.37	2.37	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	2.37	2.37	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	2.37	2.37	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
15972-60-8	Alachlor	ND		ug/kg dry	2.37	2.37	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
309-00-2	Aldrin	ND		ug/kg dry	2.37	2.37	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.37	2.37	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.37	2.37	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
57-74-9	Chlordane, total	ND		ug/kg dry	9.46	9.46	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.37	2.37	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.37	2.37	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.37	2.37	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.37	2.37	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.37	2.37	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
72-20-8	Endrin	ND		ug/kg dry	2.37	2.37	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.37	2.37	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.37	2.37	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.37	2.37	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.37	2.37	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.37	2.37	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
72-43-5	Methoxychlor	ND		ug/kg dry	11.8	11.8	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
8001-35-2	Toxaphene	ND		ug/kg dry	120	120	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:04	JW
Surrogate Recoveries											
Result											
Acceptance Range											



Sample Information

Client Sample ID: SB-6 2-3'	York Sample ID: 14H0523-06
<u>York Project (SDG) No.</u> 14H0523	<u>Client Project ID</u> Public Baseball Field

Pesticides, CT RCP Target List

Sample Prepared by Method: EPA 3545_A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2051-24-3	Surrogate: Decachlorobiphenyl	55.4 %				30-140					
877-09-8	Surrogate: Tetrachloro-m-xylene	51.5 %				30-140					

Polychlorinated Biphenyls(PCB RCP)

Sample Prepared by Method: EPA 3545_A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0358	0.0358	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:02	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0358	0.0358	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:02	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0358	0.0358	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:02	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0358	0.0358	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:02	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0358	0.0358	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:02	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0358	0.0358	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:02	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0358	0.0358	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:02	AMC
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0358	0.0358	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:02	AMC
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0358	0.0358	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:02	AMC
1336-36-3	Total PCBs	ND		mg/kg dry	0.0358	0.0358	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:02	AMC
	Surrogate Recoveries	Result					Acceptance Range				
877-09-8	Surrogate: Tetrachloro-m-xylene	49.0 %					30-140				
2051-24-3	Surrogate: Decachlorobiphenyl	28.0 %	GC-Sur				30-140				r

Herbicides, CT RCP

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1918-00-9	Dicamba	ND		ug/kg dry	28.7	28.7	1	EPA 8151A m	08/13/2014 05:58	08/14/2014 17:00	JW
94-75-7	2,4-D	ND		ug/kg dry	28.7	28.7	1	EPA 8151A m	08/13/2014 05:58	08/14/2014 17:00	JW
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	28.7	28.7	1	EPA 8151A m	08/13/2014 05:58	08/14/2014 17:00	JW
93-76-5	2,4,5-T	ND		ug/kg dry	28.7	28.7	1	EPA 8151A m	08/13/2014 05:58	08/14/2014 17:00	JW
75-99-0	Dalapon	ND		ug/kg dry	28.7	28.7	1	EPA 8151A m	08/13/2014 05:58	08/15/2014 00:44	JW
	Surrogate Recoveries	Result					Acceptance Range				
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (D	60.6 %					30-150				



Sample Information

<u>Client Sample ID:</u> SB-6 2-3'	<u>York Sample ID:</u> 14H0523-06
<u>York Project (SDG) No.</u> 14H0523	<u>Client Project ID</u> Public Baseball Field <u>Matrix</u> Soil <u>Collection Date/Time</u> August 11, 2014 12:00 pm <u>Date Received</u> 08/11/2014

Extractable Total Petroleum Hydrocarbons (ETPH)

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	22.6		mg/kg dry	3.05	14.3	1	CT DEP ETPH	08/18/2014 08:30	08/19/2014 09:40	JW
Surrogate Recoveries											
3386-33-2 Surrogate: 1-Chlorooctadecane 76.7 % 50-150											

Metals, CTDEP RCP

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	0.779		mg/kg dry	0.717	0.717	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:14	MW
7440-38-2	Arsenic	3.75		mg/kg dry	1.43	1.43	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:14	MW
7440-39-3	Barium	240		mg/kg dry	1.43	1.43	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:14	MW
7440-41-7	Beryllium	0.463		mg/kg dry	0.143	0.143	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:14	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.430	0.430	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:14	MW
7440-47-3	Chromium	52.8		mg/kg dry	0.717	0.717	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:14	MW
7440-50-8	Copper	13.0		mg/kg dry	0.717	0.717	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:14	MW
7439-92-1	Lead	16.6		mg/kg dry	0.430	0.430	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:14	MW
7440-02-0	Nickel	31.6		mg/kg dry	0.717	0.717	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:14	MW
7782-49-2	Selenium	2.01		mg/kg dry	1.43	1.43	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:14	MW
7440-22-4	Silver	ND		mg/kg dry	0.717	0.717	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:14	MW
7440-28-0	Thallium	ND		mg/kg dry	1.43	1.43	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:14	MW
7440-62-2	Vanadium	29.3		mg/kg dry	1.43	1.43	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:14	MW
7440-66-6	Zinc	52.2		mg/kg dry	1.43	1.43	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:14	MW

Mercury by 7473

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0814		mg/kg dry	0.0430	0.0430	1	EPA 7473	08/14/2014 12:30	08/14/2014 15:39	ALD

Total Solids

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	69.8		%	0.100	0.100	1	SM 2540G	08/15/2014 09:34	08/15/2014 14:37	KK



Sample Information

Client Sample ID: SB-7 1-2'

York Sample ID: 14H0523-07

York Project (SDG) No.
14H0523

Client Project ID
Public Baseball Field

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August 11, 2014 12:20 pm

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Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
67-64-1	Acetone	50		ug/kg dry	2.4	9.6	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
71-43-2	Benzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
108-86-1	Bromobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
75-25-2	Bromoform	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS



Sample Information

Client Sample ID: SB-7 1-2'

York Sample ID: 14H0523-07

York Project (SDG) No.

14H0523

Client Project ID

Public Baseball Field

Matrix

Soil

Collection Date/Time

August 11, 2014 12:20 pm

Date Received

08/11/2014

Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
67-66-3	Chloroform	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
75-09-2	Methylene chloride	ND		ug/kg dry	2.4	9.6	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.4	9.6	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.8	9.6	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
100-42-5	Styrene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	4.8	9.6	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
108-88-3	Toluene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.4	4.8	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:06	SS



Sample Information

Client Sample ID: SB-7 1-2'

York Sample ID: 14H0523-07

York Project (SDG) No.

14H0523

Client Project ID

Public Baseball Field

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Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries											
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	110 %				67-130					
460-00-4	Surrogate: p-Bromofluorobenzene	102 %				75-127					
2037-26-5	Surrogate: Toluene-d8	108 %				90-112					

Semi-Volatiles, CT RCP BNA List

Sample Prepared by Method: EPA 3545A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
62-53-3	Aniline	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
120-12-7	Anthracene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	135	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	135	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	135	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
218-01-9	Chrysene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	135	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
86-74-8	Carbazole	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR



Sample Information

Client Sample ID: SB-7 1-2'

York Sample ID: 14H0523-07

York Project (SDG) No.

14H0523

Client Project ID

Public Baseball Field

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August 11, 2014 12:20 pm

Date Received

08/11/2014

Semi-Volatiles, CT RCP BNA List

Sample Prepared by Method: EPA 3545A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	135	539	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	270	539	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	135	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
206-44-0	Fluoranthene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
86-73-7	Fluorene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	135	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
78-59-1	Isophorone	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	135	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	135	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
91-20-3	Naphthalene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	135	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	135	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	135	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	135	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	135	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
85-01-8	Phenanthrene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
108-95-2	Phenol	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
129-00-0	Pyrene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
110-86-1	Pyridine	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	135	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR



Sample Information

Client Sample ID: SB-7 1-2'

York Sample ID: 14H0523-07

York Project (SDG) No.

14H0523

Client Project ID

Public Baseball Field

Matrix

Soil

Collection Date/Time

August 11, 2014 12:20 pm

Date Received

08/11/2014

Semi-Volatiles, CT RCP BNA List

Sample Prepared by Method: EPA 3545A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	70.1	270	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:15	SR
Surrogate Recoveries											
367-12-4	<i>Surrogate: 2-Fluorophenol</i>	50.5 %				10-105					
4165-62-2	<i>Surrogate: Phenol-d5</i>	42.4 %				10-118					
4165-60-0	<i>Surrogate: Nitrobenzene-d5</i>	52.3 %				10-140					
321-60-8	<i>Surrogate: 2-Fluorobiphenyl</i>	61.8 %				10-126					
118-79-6	<i>Surrogate: 2,4,6-Tribromophenol</i>	59.7 %				10-150					
1718-51-0	<i>Surrogate: Terphenyl-d14</i>	80.0 %				10-137					

Pesticides, CT RCP Target List

Sample Prepared by Method: EPA 3545_A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.78	1.78	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	1.78	1.78	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	1.78	1.78	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
15972-60-8	Alachlor	ND		ug/kg dry	1.78	1.78	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
309-00-2	Aldrin	ND		ug/kg dry	1.78	1.78	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.78	1.78	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.78	1.78	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
57-74-9	Chlordane, total	ND		ug/kg dry	7.12	7.12	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.78	1.78	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.78	1.78	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.78	1.78	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.78	1.78	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.78	1.78	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
72-20-8	Endrin	ND		ug/kg dry	1.78	1.78	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.78	1.78	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.78	1.78	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.78	1.78	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.78	1.78	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.78	1.78	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
72-43-5	Methoxychlor	ND		ug/kg dry	8.89	8.89	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
8001-35-2	Toxaphene	ND		ug/kg dry	90.0	90.0	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:19	JW
Surrogate Recoveries											
Result											
Acceptance Range											



Sample Information

Client Sample ID: SB-7 1-2'

York Sample ID: 14H0523-07

York Project (SDG) No.
14H0523

Client Project ID
Public Baseball Field

Matrix
Soil

Collection Date/Time
August 11, 2014 12:20 pm

Date Received
08/11/2014

Pesticides, CT RCP Target List

Sample Prepared by Method: EPA 3545_A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2051-24-3	Surrogate: Decachlorobiphenyl	92.4 %				30-140					
877-09-8	Surrogate: Tetrachloro-m-xylene	79.6 %				30-140					

Polychlorinated Biphenyls(PCB RCP)

Sample Prepared by Method: EPA 3545_A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0270	0.0270	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:31	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0270	0.0270	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:31	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0270	0.0270	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:31	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0270	0.0270	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:31	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0270	0.0270	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:31	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0270	0.0270	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:31	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0270	0.0270	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:31	AMC
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0270	0.0270	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:31	AMC
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0270	0.0270	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:31	AMC
1336-36-3	Total PCBs	ND		mg/kg dry	0.0270	0.0270	1	EPA 8082A	08/13/2014 17:00	08/14/2014 13:31	AMC
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	76.0 %				30-140					
2051-24-3	Surrogate: Decachlorobiphenyl	48.5 %				30-140					

Herbicides, CT RCP

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1918-00-9	Dicamba	ND		ug/kg dry	21.6	21.6	1	EPA 8151A m	08/13/2014 05:58	08/14/2014 17:15	JW
94-75-7	2,4-D	ND		ug/kg dry	21.6	21.6	1	EPA 8151A m	08/13/2014 05:58	08/14/2014 17:15	JW
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	21.6	21.6	1	EPA 8151A m	08/13/2014 05:58	08/14/2014 17:15	JW
93-76-5	2,4,5-T	ND		ug/kg dry	21.6	21.6	1	EPA 8151A m	08/13/2014 05:58	08/14/2014 17:15	JW
75-99-0	Dalapon	ND		ug/kg dry	21.6	21.6	1	EPA 8151A m	08/13/2014 05:58	08/15/2014 01:14	JW
Surrogate Recoveries		Result	Acceptance Range								
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (E)	86.0 %				30-150					



Sample Information

Client Sample ID: SB-7 1-2'

York Sample ID: 14H0523-07

York Project (SDG) No.

14H0523

Client Project ID

Public Baseball Field

Matrix

Soil

Collection Date/Time

August 11, 2014 12:20 pm

Date Received

08/11/2014

Extractable Total Petroleum Hydrocarbons (ETPH)

Sample Prepared by Method: EPA 3545A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	23.7		mg/kg dry	2.30	10.8	1	CT DEP ETPH	08/18/2014 08:30	08/19/2014 09:40	JW
Surrogate Recoveries											
3386-33-2 <i>Surrogate: 1-Chlorooctadecane</i>											
		Result			Acceptance Range						
					50-150						

Metals, CTDEP RCP

Sample Prepared by Method: EPA 3050B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.539	0.539	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:19	MW
7440-38-2	Arsenic	144		mg/kg dry	1.08	1.08	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:19	MW
7440-39-3	Barium	91.2		mg/kg dry	1.08	1.08	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:19	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.108	0.108	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:19	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.323	0.323	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:19	MW
7440-47-3	Chromium	33.6		mg/kg dry	0.539	0.539	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:19	MW
7440-50-8	Copper	16.8		mg/kg dry	0.539	0.539	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:19	MW
7439-92-1	Lead	35.7		mg/kg dry	0.323	0.323	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:19	MW
7440-02-0	Nickel	21.5		mg/kg dry	0.539	0.539	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:19	MW
7782-49-2	Selenium	ND		mg/kg dry	1.08	1.08	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:19	MW
7440-22-4	Silver	ND		mg/kg dry	0.539	0.539	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:19	MW
7440-28-0	Thallium	ND		mg/kg dry	1.08	1.08	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:19	MW
7440-62-2	Vanadium	35.6		mg/kg dry	1.08	1.08	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:19	MW
7440-66-6	Zinc	57.2		mg/kg dry	1.08	1.08	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:19	MW

Mercury by 7473

Sample Prepared by Method: EPA 7473 soil

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0741		mg/kg dry	0.0323	0.0323	1	EPA 7473	08/14/2014 12:30	08/14/2014 15:50	ALD

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	92.8		%	0.100	0.100	1	SM 2540G	08/15/2014 09:34	08/15/2014 14:37	KK



Sample Information

Client Sample ID: SB-8 1-2'

York Sample ID: 14H0523-08

York Project (SDG) No.
14H0523

Client Project ID
Public Baseball Field

Matrix
Soil

Collection Date/Time
August 11, 2014 12:45 pm

Date Received
08/11/2014

Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
78-93-3	2-Butanone	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
591-78-6	2-Hexanone	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
67-64-1	Acetone	ND		ug/kg dry	3.1	12	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
71-43-2	Benzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
108-86-1	Bromobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
75-25-2	Bromoform	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS



Sample Information

Client Sample ID: SB-8 1-2'

York Sample ID: 14H0523-08

York Project (SDG) No.
14H0523

Client Project ID
Public Baseball Field

Matrix
Soil

Collection Date/Time
August 11, 2014 12:45 pm

Date Received
08/11/2014

Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
75-00-3	Chloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
67-66-3	Chloroform	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
74-87-3	Chloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
74-95-3	Dibromomethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
75-09-2	Methylene chloride	ND		ug/kg dry	3.1	12	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
91-20-3	Naphthalene	ND		ug/kg dry	3.1	12	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
95-47-6	o-Xylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.2	12	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
100-42-5	Styrene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	6.2	12	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
108-88-3	Toluene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.1	6.2	1	EPA 8260C	08/15/2014 08:23	08/15/2014 20:35	SS



Sample Information

Client Sample ID: SB-8 1-2'

York Sample ID: 14H0523-08

York Project (SDG) No.

14H0523

Client Project ID

Public Baseball Field

Matrix

Soil

Collection Date/Time

August 11, 2014 12:45 pm

Date Received

08/11/2014

Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries											
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %				67-130					
460-00-4	Surrogate: p-Bromofluorobenzene	123 %				75-127					
2037-26-5	Surrogate: Toluene-d8	110 %				90-112					

Semi-Volatiles, CT RCP BNA List

Sample Prepared by Method: EPA 3545A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
62-53-3	Aniline	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
120-12-7	Anthracene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	135	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	135	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	135	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
218-01-9	Chrysene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	135	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
86-74-8	Carbazole	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR



Sample Information

Client Sample ID: SB-8 1-2'

York Sample ID: 14H0523-08

York Project (SDG) No.
14H0523

Client Project ID
Public Baseball Field

Matrix
Soil

Collection Date/Time
August 11, 2014 12:45 pm

Date Received
08/11/2014

Semi-Volatiles, CT RCP BNA List

Sample Prepared by Method: EPA 3545A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	135	541	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	271	541	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	135	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
206-44-0	Fluoranthene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
86-73-7	Fluorene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	135	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
78-59-1	Isophorone	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	135	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	135	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
91-20-3	Naphthalene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	135	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	135	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	135	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	135	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	135	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
85-01-8	Phenanthrene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
108-95-2	Phenol	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
129-00-0	Pyrene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
110-86-1	Pyridine	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	135	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR



Sample Information

Client Sample ID: SB-8 1-2'

York Sample ID: 14H0523-08

York Project (SDG) No.

14H0523

Client Project ID

Public Baseball Field

Matrix

Soil

Collection Date/Time

August 11, 2014 12:45 pm

Date Received

08/11/2014

Semi-Volatiles, CT RCP BNA List

Sample Prepared by Method: EPA 3545A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	70.4	271	1	EPA 8270D	08/13/2014 14:35	08/14/2014 21:48	SR
Surrogate Recoveries											
367-12-4	<i>Surrogate: 2-Fluorophenol</i>	39.8 %			<i>10-105</i>						
4165-62-2	<i>Surrogate: Phenol-d5</i>	27.6 %			<i>10-118</i>						
4165-60-0	<i>Surrogate: Nitrobenzene-d5</i>	42.4 %			<i>10-140</i>						
321-60-8	<i>Surrogate: 2-Fluorobiphenyl</i>	24.4 %			<i>10-126</i>						
118-79-6	<i>Surrogate: 2,4,6-Tribromophenol</i>	23.3 %			<i>10-150</i>						
1718-51-0	<i>Surrogate: Terphenyl-d14</i>	61.2 %			<i>10-137</i>						

Pesticides, CT RCP Target List

Sample Prepared by Method: EPA 3545_A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.79	1.79	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
72-55-9	4,4'-DDE	2.85		ug/kg dry	1.79	1.79	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
50-29-3	4,4'-DDT	2.77		ug/kg dry	1.79	1.79	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
15972-60-8	Alachlor	ND		ug/kg dry	1.79	1.79	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
309-00-2	Aldrin	ND		ug/kg dry	1.79	1.79	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.79	1.79	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.79	1.79	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
57-74-9	Chlordane, total	ND		ug/kg dry	7.15	7.15	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.79	1.79	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.79	1.79	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.79	1.79	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.79	1.79	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.79	1.79	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
72-20-8	Endrin	ND		ug/kg dry	1.79	1.79	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.79	1.79	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.79	1.79	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.79	1.79	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.79	1.79	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.79	1.79	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
72-43-5	Methoxychlor	ND		ug/kg dry	8.93	8.93	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
8001-35-2	Toxaphene	ND		ug/kg dry	90.4	90.4	5	EPA 8081B	08/13/2014 17:00	08/14/2014 12:34	JW
Surrogate Recoveries											
		Result			Acceptance Range						



Sample Information

Client Sample ID: SB-8 1-2'

York Sample ID: 14H0523-08

York Project (SDG) No.

14H0523

Client Project ID

Public Baseball Field

Matrix

Soil

Collection Date/Time

August 11, 2014 12:45 pm

Date Received

08/11/2014

Pesticides, CT RCP Target List

Sample Prepared by Method: EPA 3545_A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2051-24-3	Surrogate: Decachlorobiphenyl	106 %				30-140					
877-09-8	Surrogate: Tetrachloro-m-xylene	89.0 %				30-140					

Polychlorinated Biphenyls(PCB RCP)

Sample Prepared by Method: EPA 3545_A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0271	0.0271	1	EPA 8082A	08/13/2014 17:00	08/14/2014 14:00	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0271	0.0271	1	EPA 8082A	08/13/2014 17:00	08/14/2014 14:00	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0271	0.0271	1	EPA 8082A	08/13/2014 17:00	08/14/2014 14:00	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0271	0.0271	1	EPA 8082A	08/13/2014 17:00	08/14/2014 14:00	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0271	0.0271	1	EPA 8082A	08/13/2014 17:00	08/14/2014 14:00	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0271	0.0271	1	EPA 8082A	08/13/2014 17:00	08/14/2014 14:00	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0271	0.0271	1	EPA 8082A	08/13/2014 17:00	08/14/2014 14:00	AMC
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0271	0.0271	1	EPA 8082A	08/13/2014 17:00	08/14/2014 14:00	AMC
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0271	0.0271	1	EPA 8082A	08/13/2014 17:00	08/14/2014 14:00	AMC
1336-36-3	Total PCBs	ND		mg/kg dry	0.0271	0.0271	1	EPA 8082A	08/13/2014 17:00	08/14/2014 14:00	AMC
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	83.0 %				30-140					
2051-24-3	Surrogate: Decachlorobiphenyl	54.5 %				30-140					

Herbicides, CT RCP

Sample Prepared by Method: EPA 3550B/8151A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1918-00-9	Dicamba	ND		ug/kg dry	21.7	21.7	1	EPA 8151A m	08/13/2014 05:58	08/14/2014 17:30	JW
94-75-7	2,4-D	ND		ug/kg dry	21.7	21.7	1	EPA 8151A m	08/13/2014 05:58	08/14/2014 17:30	JW
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	21.7	21.7	1	EPA 8151A m	08/13/2014 05:58	08/14/2014 17:30	JW
93-76-5	2,4,5-T	ND		ug/kg dry	21.7	21.7	1	EPA 8151A m	08/13/2014 05:58	08/14/2014 17:30	JW
75-99-0	Dalapon	ND		ug/kg dry	21.7	21.7	1	EPA 8151A m	08/13/2014 05:58	08/15/2014 01:44	JW
Surrogate Recoveries		Result	Acceptance Range								
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (D	89.6 %				30-150					



Sample Information

Client Sample ID: SB-8 1-2'

York Sample ID: 14H0523-08

York Project (SDG) No.
14H0523

Client Project ID
Public Baseball Field

Matrix
Soil

Collection Date/Time
August 11, 2014 12:45 pm

Date Received
08/11/2014

Extractable Total Petroleum Hydrocarbons (ETPH)

Sample Prepared by Method: EPA 3545A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	28.0		mg/kg dry	2.31	10.8	1	CT DEP ETPH	08/18/2014 08:30	08/19/2014 09:40	JW
Surrogate Recoveries											
Acceptance Range											
3386-33-2	Surrogate: 1-Chlorooctadecane	80.2 %				50-150					

Metals, CTDEP RCP

Sample Prepared by Method: EPA 3050B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.541	0.541	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:23	MW
7440-38-2	Arsenic	89.2		mg/kg dry	1.08	1.08	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:23	MW
7440-39-3	Barium	139		mg/kg dry	1.08	1.08	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:23	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.108	0.108	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:23	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.325	0.325	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:23	MW
7440-47-3	Chromium	50.3		mg/kg dry	0.541	0.541	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:23	MW
7440-50-8	Copper	22.7		mg/kg dry	0.541	0.541	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:23	MW
7439-92-1	Lead	41.6		mg/kg dry	0.325	0.325	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:23	MW
7440-02-0	Nickel	29.6		mg/kg dry	0.541	0.541	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:23	MW
7782-49-2	Selenium	1.59		mg/kg dry	1.08	1.08	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:23	MW
7440-22-4	Silver	ND		mg/kg dry	0.541	0.541	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:23	MW
7440-28-0	Thallium	ND		mg/kg dry	1.08	1.08	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:23	MW
7440-62-2	Vanadium	41.2		mg/kg dry	1.08	1.08	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:23	MW
7440-66-6	Zinc	69.0		mg/kg dry	1.08	1.08	1	EPA 6010C	08/15/2014 08:06	08/15/2014 12:23	MW

Mercury by 7473

Sample Prepared by Method: EPA 7473 soil

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0681		mg/kg dry	0.0325	0.0325	1	EPA 7473	08/14/2014 12:30	08/14/2014 16:00	ALD

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	92.3		%	0.100	0.100	1	SM 2540G	08/15/2014 09:34	08/15/2014 14:37	KK



Sample Information

Client Sample ID: TB-1

York Sample ID: 14H0523-11

York Project (SDG) No.
14H0523

Client Project ID
Public Baseball Field

Matrix
Water

Collection Date/Time
August 11, 2014 12:00 am

Date Received
08/11/2014

Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5030B

Log-in Notes: VOA-Air

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	4.0	B	ug/L	1.0	2.0	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
108-86-1	Bromobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
78-93-3	2-Butanone	ND		ug/L	0.50	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS



Sample Information

<u>Client Sample ID:</u> TB-1	<u>York Sample ID:</u> 14H0523-11			
<u>York Project (SDG) No.</u> 14H0523	<u>Client Project ID</u> Public Baseball Field	<u>Matrix</u> Water	<u>Collection Date/Time</u> August 11, 2014 12:00 am	<u>Date Received</u> 08/11/2014

Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	<u>Log-in Notes:</u>	<u>VOA-Air</u>	<u>Sample Notes:</u>	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
142-28-9	1,3-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
75-09-2	Methylene chloride	ND		ug/L	10	10	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
91-20-3	Naphthalene	ND		ug/L	1.0	2.0	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
109-99-9	Tetrahydrofuran	ND		ug/L	1.0	2.0	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
75-01-4	Vinyl Chloride	ND		ug/L	0.50	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C		08/15/2014 09:36	08/15/2014 22:02	SS	



Sample Information

Client Sample ID: TB-1

York Sample ID: 14H0523-11

York Project (SDG) No.

14H0523

Client Project ID

Public Baseball Field

Matrix

Water

Collection Date/Time

August 11, 2014 12:00 am

Date Received

08/11/2014

Volatile Organics, CT RCP List

Log-in Notes: VOA-Air

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries											
17060-07-0	<i>Surrogate: 1,2-Dichloroethane-d4</i>	104 %				81-123					
2037-26-5	<i>Surrogate: Toluene-d8</i>	100 %				88-114					
460-00-4	<i>Surrogate: p-Bromoiodobenzene</i>	97.2 %				70-128					



Analytical Batch Summary

Batch ID: BH40720**Preparation Method:** EPA 3545A**Prepared By:** SA

YORK Sample ID	Client Sample ID	Preparation Date
14H0523-06	SB-6 2-3'	08/13/14
14H0523-07	SB-7 1-2'	08/13/14
14H0523-08	SB-8 1-2'	08/13/14
BH40720-BLK1	Blank	08/13/14
BH40720-BS1	LCS	08/13/14
BH40720-BSD1	LCS Dup	08/13/14

Batch ID: BH40723**Preparation Method:** EPA 3545_A**Prepared By:** SA

YORK Sample ID	Client Sample ID	Preparation Date
14H0523-06	SB-6 2-3'	08/13/14
14H0523-06	SB-6 2-3'	08/13/14
14H0523-07	SB-7 1-2'	08/13/14
14H0523-07	SB-7 1-2'	08/13/14
14H0523-08	SB-8 1-2'	08/13/14
14H0523-08	SB-8 1-2'	08/13/14
BH40723-BLK1	Blank	08/13/14
BH40723-BLK1	Blank	08/13/14
BH40723-BS1	LCS	08/13/14
BH40723-BS2	LCS	08/13/14
BH40723-BSD1	LCS Dup	08/13/14

Batch ID: BH40763**Preparation Method:** EPA 3550B/8151A**Prepared By:** TFD

YORK Sample ID	Client Sample ID	Preparation Date
14H0523-06	SB-6 2-3'	08/13/14
14H0523-07	SB-7 1-2'	08/13/14
14H0523-08	SB-8 1-2'	08/13/14
BH40763-BLK1	Blank	08/13/14
BH40763-BS1	LCS	08/13/14
BH40763-BSD1	LCS Dup	08/13/14

Batch ID: BH40795**Preparation Method:** EPA 7473 soil**Prepared By:** ALD

YORK Sample ID	Client Sample ID	Preparation Date
14H0523-06	SB-6 2-3'	08/14/14
14H0523-07	SB-7 1-2'	08/14/14
14H0523-08	SB-8 1-2'	08/14/14
BH40795-BLK1	Blank	08/14/14
BH40795-SRM1	Reference	08/14/14

Batch ID: BH40842**Preparation Method:** EPA 3050B**Prepared By:** MW



YORK Sample ID	Client Sample ID	Preparation Date
14H0523-06	SB-6 2-3'	08/15/14
14H0523-07	SB-7 1-2'	08/15/14
14H0523-08	SB-8 1-2'	08/15/14
BH40842-BLK1	Blank	08/15/14
BH40842-SRM1	Reference	08/15/14

Batch ID: BH40853 **Preparation Method:** % Solids Prep **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
14H0523-06	SB-6 2-3'	08/15/14
14H0523-07	SB-7 1-2'	08/15/14
14H0523-08	SB-8 1-2'	08/15/14

Batch ID: BH40876 **Preparation Method:** EPA 5035A **Prepared By:** BK

YORK Sample ID	Client Sample ID	Preparation Date
14H0523-06	SB-6 2-3'	08/15/14
14H0523-07	SB-7 1-2'	08/15/14
14H0523-08	SB-8 1-2'	08/15/14
BH40876-BLK1	Blank	08/15/14
BH40876-BS1	LCS	08/15/14
BH40876-BSD1	LCS Dup	08/15/14

Batch ID: BH40890 **Preparation Method:** EPA 5030B **Prepared By:** OW

YORK Sample ID	Client Sample ID	Preparation Date
14H0523-11	TB-1	08/15/14
BH40890-BLK1	Blank	08/15/14
BH40890-BS1	LCS	08/15/14
BH40890-BSD1	LCS Dup	08/15/14

Batch ID: BH40908 **Preparation Method:** EPA 3545A **Prepared By:** KAT

YORK Sample ID	Client Sample ID	Preparation Date
14H0523-06	SB-6 2-3'	08/18/14
14H0523-07	SB-7 1-2'	08/18/14
14H0523-08	SB-8 1-2'	08/18/14
BH40908-BLK1	Blank	08/18/14
BH40908-BS1	LCS	08/18/14
BH40908-BSD1	LCS Dup	08/18/14



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD RPD	RPD Limit	Flag
Batch BH40876 - EPA 5035A											
Blank (BH40876-BLK1)											
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet						Prepared & Analyzed: 08/15/2014		
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	5.0	"								
2-Chlorotoluene	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl Methacrylate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH40876 - EPA 5035A

Blank (BH40876-BLK1)

Methylene chloride	ND	10	ug/kg wet								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Tetrahydrofuran	ND	10	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	51.2		ug/L	50.0		102	67-130				
<i>Surrogate: p-Bromofluorobenzene</i>	50.2		"	50.0		100	75-127				
<i>Surrogate: Toluene-d8</i>	50.3		"	50.0		101	90-112				

LCS (BH40876-BS1)

1,1,1,2-Tetrachloroethane	50.4		ug/L	50.0		101	72-126				
1,1,1-Trichloroethane	50.3		"	50.0		101	74-126				
1,1,2,2-Tetrachloroethane	54.5		"	50.0		109	72-133				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	73.0		"	50.0		146	47-160				
1,1,2-Trichloroethane	51.2		"	50.0		102	81-124				
1,1-Dichloroethane	49.7		"	50.0		99.3	80-125				
1,1-Dichloroethylene	48.2		"	50.0		96.4	62-136				
1,1-Dichloropropylene	48.2		"	50.0		96.5	81-121				
1,2,3-Trichlorobenzene	49.1		"	50.0		98.2	63-154				
1,2,3-Trichloropropane	50.7		"	50.0		101	70-126				
1,2,4-Trichlorobenzene	49.9		"	50.0		99.8	61-158				
1,2,4-Trimethylbenzene	53.1		"	50.0		106	83-123				
1,2-Dibromo-3-chloropropane	51.0		"	50.0		102	48-152				
1,2-Dibromoethane	52.8		"	50.0		106	81-123				
1,2-Dichlorobenzene	47.7		"	50.0		95.4	81-117				
1,2-Dichloroethane	50.0		"	50.0		99.9	67-129				
1,2-Dichloropropane	52.0		"	50.0		104	74-127				
1,3,5-Trimethylbenzene	52.7		"	50.0		105	81-120				
1,3-Dichlorobenzene	49.0		"	50.0		98.0	84-117				
1,3-Dichloropropane	52.3		"	50.0		105	77-125				
1,4-Dichlorobenzene	47.3		"	50.0		94.6	85-118				
2,2-Dichloropropane	50.4		"	50.0		101	69-129				
2-Butanone	50.8		"	50.0		102	58-159				
2-Chlorotoluene	51.4		"	50.0		103	75-123				
2-Hexanone	54.8		"	50.0		110	50-154				
4-Chlorotoluene	52.1		"	50.0		104	76-121				
4-Methyl-2-pentanone	53.4		"	50.0		107	53-149				
Acetone	47.8		"	50.0		95.6	32-173				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH40876 - EPA 5035A											
LCS (BH40876-BS1)											
Prepared & Analyzed: 08/15/2014											
Acrylonitrile	49.7		ug/L	50.0	99.5		50-158				
Benzene	49.3		"	50.0	98.5		83-126				
Bromobenzene	53.4		"	50.0	107		70-130				
Bromochloromethane	52.2		"	50.0	104		73-128				
Bromodichloromethane	54.4		"	50.0	109		74-126				
Bromoform	53.5		"	50.0	107		63-137				
Bromomethane	53.8		"	50.0	108		24-144				
Carbon disulfide	48.5		"	50.0	96.9		29-64	High Bias			
Carbon tetrachloride	48.0		"	50.0	96.1		68-132				
Chlorobenzene	48.3		"	50.0	96.5		87-115				
Chloroethane	43.5		"	50.0	86.9		39-146				
Chloroform	49.6		"	50.0	99.3		84-120				
Chloromethane	46.9		"	50.0	93.8		35-153				
cis-1,2-Dichloroethylene	48.7		"	50.0	97.4		86-121				
cis-1,3-Dichloropropylene	53.6		"	50.0	107		78-122				
Dibromochloromethane	52.7		"	50.0	105		41-149				
Dibromomethane	50.0		"	50.0	100		82-118				
Dichlorodifluoromethane	43.7		"	50.0	87.4		52-143				
Ethyl Benzene	49.7		"	50.0	99.5		81-118				
Hexachlorobutadiene	49.6		"	50.0	99.2		70-133				
Isopropylbenzene	51.8		"	50.0	104		78-122				
Methyl Methacrylate	53.8		"	50.0	108		73-131				
Methyl tert-butyl ether (MTBE)	50.1		"	50.0	100		62-140				
Methylene chloride	48.8		"	50.0	97.5		48-143				
Naphthalene	51.4		"	50.0	103		55-160				
n-Butylbenzene	51.4		"	50.0	103		71-142				
n-Propylbenzene	52.4		"	50.0	105		80-123				
o-Xylene	53.8		"	50.0	108		81-118				
p- & m- Xylenes	102		"	100	102		80-120				
p-Isopropyltoluene	49.5		"	50.0	99.0		83-126				
sec-Butylbenzene	51.8		"	50.0	104		84-123				
Styrene	51.3		"	50.0	103		85-115				
tert-Butylbenzene	54.7		"	50.0	109		78-122				
Tetrachloroethylene	49.7		"	50.0	99.5		76-129				
Tetrahydrofuran	48.7		"	50.0	97.5		67-127				
Toluene	51.0		"	50.0	102		85-116				
trans-1,2-Dichloroethylene	48.1		"	50.0	96.2		66-136				
trans-1,3-Dichloropropylene	55.0		"	50.0	110		71-128				
trans-1,4-dichloro-2-butene	56.2		"	50.0	112		70-130				
Trichloroethylene	50.1		"	50.0	100		83-118				
Trichlorofluoromethane	44.7		"	50.0	89.4		54-141				
Vinyl Chloride	44.8		"	50.0	89.6		38-147				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	51.5		"	50.0	103		67-130				
<i>Surrogate: p-Bromofluorobenzene</i>	52.5		"	50.0	105		75-127				
<i>Surrogate: Toluene-d8</i>	52.7		"	50.0	105		90-112				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH40876 - EPA 5035A

LCS Dup (BH40876-BSD1)	Prepared & Analyzed: 08/15/2014									
1,1,1,2-Tetrachloroethane	50.9		ug/L	50.0	102	72-126			1.16	30
1,1,1-Trichloroethane	50.0		"	50.0	100	74-126			0.678	30
1,1,2,2-Tetrachloroethane	52.9		"	50.0	106	72-133			3.03	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	70.0		"	50.0	140	47-160			4.29	30
1,1,2-Trichloroethane	51.8		"	50.0	104	81-124			1.28	30
1,1-Dichloroethane	50.4		"	50.0	101	80-125			1.56	30
1,1-Dichloroethylene	47.6		"	50.0	95.2	62-136			1.23	30
1,1-Dichloropropylene	47.9		"	50.0	95.8	81-121			0.749	30
1,2,3-Trichlorobenzene	51.1		"	50.0	102	63-154			3.89	30
1,2,3-Trichloropropane	49.2		"	50.0	98.4	70-126			3.12	30
1,2,4-Trichlorobenzene	50.3		"	50.0	101	61-158			0.719	30
1,2,4-Trimethylbenzene	51.5		"	50.0	103	83-123			3.10	30
1,2-Dibromo-3-chloropropane	56.0		"	50.0	112	48-152			9.41	30
1,2-Dibromoethane	52.3		"	50.0	105	81-123			1.01	30
1,2-Dichlorobenzene	50.5		"	50.0	101	81-117			5.76	30
1,2-Dichloroethane	49.4		"	50.0	98.8	67-129			1.15	30
1,2-Dichloropropane	53.7		"	50.0	107	74-127			3.06	30
1,3,5-Trimethylbenzene	51.2		"	50.0	102	81-120			2.85	30
1,3-Dichlorobenzene	49.3		"	50.0	98.6	84-117			0.651	30
1,3-Dichloropropane	53.2		"	50.0	106	77-125			1.65	30
1,4-Dichlorobenzene	49.0		"	50.0	97.9	85-118			3.43	30
2,2-Dichloropropane	49.9		"	50.0	99.8	69-129			1.08	30
2-Butanone	50.4		"	50.0	101	58-159			0.672	30
2-Chlorotoluene	50.2		"	50.0	100	75-123			2.30	30
2-Hexanone	52.8		"	50.0	106	50-154			3.59	30
4-Chlorotoluene	52.1		"	50.0	104	76-121			0.0960	30
4-Methyl-2-pentanone	54.2		"	50.0	108	53-149			1.39	30
Acetone	50.0		"	50.0	100	32-173			4.54	30
Acrylonitrile	48.1		"	50.0	96.2	50-158			3.37	30
Benzene	48.2		"	50.0	96.4	83-126			2.17	30
Bromobenzene	54.8		"	50.0	110	70-130			2.61	30
Bromo(chloromethane	50.5		"	50.0	101	73-128			3.25	30
Bromodichloromethane	54.1		"	50.0	108	74-126			0.553	30
Bromoform	52.2		"	50.0	104	63-137			2.44	30
Bromomethane	55.0		"	50.0	110	24-144			2.21	30
Carbon disulfide	47.6		"	50.0	95.3	29-64	High Bias		1.73	30
Carbon tetrachloride	48.7		"	50.0	97.5	68-132			1.43	30
Chlorobenzene	49.2		"	50.0	98.4	87-115			1.91	30
Chloroethane	48.2		"	50.0	96.3	39-146			10.2	30
Chloroform	49.0		"	50.0	97.9	84-120			1.38	30
Chloromethane	47.9		"	50.0	95.7	35-153			2.09	30
cis-1,2-Dichloroethylene	49.0		"	50.0	98.1	86-121			0.655	30
cis-1,3-Dichloropropylene	54.2		"	50.0	108	78-122			1.08	30
Dibromo(chloromethane	53.0		"	50.0	106	41-149			0.454	30
Dibromomethane	50.8		"	50.0	102	82-118			1.51	30
Dichlorodifluoromethane	44.1		"	50.0	88.2	52-143			0.957	30
Ethyl Benzene	51.1		"	50.0	102	81-118			2.72	30
Hexachlorobutadiene	52.6		"	50.0	105	70-133			6.01	30
Isopropylbenzene	53.6		"	50.0	107	78-122			3.43	30
Methyl Methacrylate	54.4		"	50.0	109	73-131			1.02	30
Methyl tert-butyl ether (MTBE)	47.0		"	50.0	94.0	62-140			6.41	30



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH40876 - EPA 5035A

LCS Dup (BH40876-BSD1)								Prepared & Analyzed: 08/15/2014			
Methylene chloride	49.0		ug/L	50.0	97.9	48-143			0.409	30	
Naphthalene	50.0		"	50.0	100	55-160			2.68	30	
n-Butylbenzene	52.1		"	50.0	104	71-142			1.39	30	
n-Propylbenzene	52.8		"	50.0	106	80-123			0.741	30	
o-Xylene	54.5		"	50.0	109	81-118			1.24	30	
p- & m- Xylenes	98.6		"	100	98.6	80-120			3.01	30	
p-Isopropyltoluene	50.6		"	50.0	101	83-126			2.18	30	
sec-Butylbenzene	51.5		"	50.0	103	84-123			0.638	30	
Styrene	52.7		"	50.0	105	85-115			2.75	30	
tert-Butylbenzene	55.5		"	50.0	111	78-122			1.49	30	
Tetrachloroethylene	50.6		"	50.0	101	76-129			1.64	30	
Tetrahydrofuran	49.2		"	50.0	98.5	67-127			1.06	30	
Toluene	52.1		"	50.0	104	85-116			2.17	30	
trans-1,2-Dichloroethylene	47.3		"	50.0	94.6	66-136			1.64	30	
trans-1,3-Dichloropropylene	55.8		"	50.0	112	71-128			1.50	30	
trans-1,4-dichloro-2-butene	51.2		"	50.0	102	70-130			9.35	30	
Trichloroethylene	51.9		"	50.0	104	83-118			3.53	30	
Trichlorofluoromethane	45.4		"	50.0	90.9	54-141			1.62	30	
Vinyl Chloride	46.2		"	50.0	92.4	38-147			3.10	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	48.9		"	50.0	97.9	67-130					
<i>Surrogate: p-Bromofluorobenzene</i>	51.9		"	50.0	104	75-127					
<i>Surrogate: Toluene-d8</i>	50.6		"	50.0	101	90-112					

Batch BH40890 - EPA 5030B

Blank (BH40890-BLK1)				Prepared & Analyzed: 08/15/2014							
Acetone	2.8	2.0	ug/L								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
2-Butanone	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
n-Butylbenzene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
2-Chlorotoluene	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH40890 - EPA 5030B											
Blank (BH40890-BLK1)											
1,4-Dichlorobenzene	ND	0.50	ug/L								
1,2-Dichlorobenzene	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
p-Isopropyltoluene	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
Methyl Methacrylate	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Naphthalene	3.0	2.0	"								
n-Propylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
1,1,1,2-Tetrachloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Tetrahydrofuran	ND	2.0	"								
Toluene	ND	0.50	"								
1,2,3-Trichlorobenzene	1.6	0.50	"								
1,2,4-Trichlorobenzene	1.0	0.50	"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	51.2		"	50.0		102	81-123				
<i>Surrogate: Toluene-d8</i>	50.3		"	50.0		101	88-114				
<i>Surrogate: p-Bromofluorobenzene</i>	50.2		"	50.0		100	70-128				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH40890 - EPA 5030B

LCS (BH40890-BS1)	Prepared & Analyzed: 08/15/2014									
Acetone	47.8		ug/L	50.0	95.6	21-172				
Acrylonitrile	49.7		"	50.0	99.5	49-160				
Benzene	49.3		"	50.0	98.5	82-120				
Bromobenzene	53.4		"	50.0	107	82-119				
Bromochloromethane	52.2		"	50.0	104	69-125				
Bromodichloromethane	54.4		"	50.0	109	84-117				
Bromoform	53.5		"	50.0	107	77-130				
Bromomethane	53.8		"	50.0	108	16-162				
2-Butanone	50.8		"	50.0	102	48-156				
sec-Butylbenzene	51.8		"	50.0	104	85-119				
n-Butylbenzene	51.4		"	50.0	103	76-125				
tert-Butylbenzene	54.7		"	50.0	109	83-119				
Carbon disulfide	48.5		"	50.0	96.9	21-78	High Bias			
Carbon tetrachloride	48.0		"	50.0	96.1	72-132				
Chlorobenzene	48.3		"	50.0	96.5	88-112				
Chloroethane	43.5		"	50.0	86.9	29-172				
Chloroform	49.6		"	50.0	99.3	77-124				
Chloromethane	46.9		"	50.0	93.8	37-131				
2-Chlorotoluene	51.4		"	50.0	103	81-118				
4-Chlorotoluene	52.1		"	50.0	104	81-117				
1,2-Dibromo-3-chloropropane	51.0		"	50.0	102	60-146				
Dibromochloromethane	52.7		"	50.0	105	72-131				
1,2-Dibromoethane	52.8		"	50.0	106	82-122				
Dibromomethane	50.0		"	50.0	100	85-116				
trans-1,4-dichloro-2-butene	56.2		"	50.0	112	70-130				
1,3-Dichlorobenzene	49.0		"	50.0	98.0	83-117				
1,4-Dichlorobenzene	47.3		"	50.0	94.6	83-118				
1,2-Dichlorobenzene	47.7		"	50.0	95.4	85-115				
Dichlorodifluoromethane	43.7		"	50.0	87.4	47-152				
1,1-Dichloroethane	49.7		"	50.0	99.3	70-131				
1,2-Dichloroethane	50.0		"	50.0	99.9	72-126				
cis-1,2-Dichloroethylene	48.7		"	50.0	97.4	77-124				
1,1-Dichloroethylene	48.2		"	50.0	96.4	60-143				
trans-1,2-Dichloroethylene	48.1		"	50.0	96.2	55-148				
2,2-Dichloropropane	50.4		"	50.0	101	60-135				
1,2-Dichloropropane	52.0		"	50.0	104	78-119				
1,3-Dichloropropane	52.3		"	50.0	105	79-121				
trans-1,3-Dichloropropylene	55.0		"	50.0	110	77-120				
1,1-Dichloropropylene	48.2		"	50.0	96.5	78-122				
cis-1,3-Dichloropropylene	53.6		"	50.0	107	81-117				
Ethyl Benzene	49.7		"	50.0	99.5	86-114				
Hexachlorobutadiene	49.6		"	50.0	99.2	68-139				
2-Hexanone	54.8		"	50.0	110	50-151				
Isopropylbenzene	51.8		"	50.0	104	84-118				
p-Isopropyltoluene	49.5		"	50.0	99.0	84-121				
Methyl tert-butyl ether (MTBE)	50.1		"	50.0	100	49-156				
Methylene chloride	48.8		"	50.0	97.5	51-145				
Methyl Methacrylate	53.8		"	50.0	108	70-130				
4-Methyl-2-pentanone	53.4		"	50.0	107	55-147				
Naphthalene	51.4		"	50.0	103	67-141				
n-Propylbenzene	52.4		"	50.0	105	84-118				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH40890 - EPA 5030B

LCS (BH40890-BS1)							Prepared & Analyzed: 08/15/2014				
Styrene	51.3		ug/L	50.0	103		77-126				
1,1,1,2-Tetrachloroethane	50.4		"	50.0	101		85-118				
1,1,2,2-Tetrachloroethane	54.5		"	50.0	109		71-130				
Tetrachloroethylene	49.7		"	50.0	99.5		75-129				
Tetrahydrofuran	48.7		"	50.0	97.5		70-130				
Toluene	51.0		"	50.0	102		86-113				
1,2,3-Trichlorobenzene	49.1		"	50.0	98.2		68-140				
1,2,4-Trichlorobenzene	49.9		"	50.0	99.8		65-143				
1,1,1-Trichloroethane	50.3		"	50.0	101		74-128				
1,1,2-Trichloroethane	51.2		"	50.0	102		80-122				
Trichloroethylene	50.1		"	50.0	100		85-115				
Trichlorofluoromethane	44.7		"	50.0	89.4		69-131				
1,2,3-Trichloropropane	50.7		"	50.0	101		77-125				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	73.0		"	50.0	146		51-157				
1,3,5-Trimethylbenzene	52.7		"	50.0	105		84-118				
1,2,4-Trimethylbenzene	53.1		"	50.0	106		83-121				
Vinyl Chloride	44.8		"	50.0	89.6		44-152				
o-Xylene	53.8		"	50.0	108		85-114				
p- & m- Xylenes	102		"	100	102		84-117				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	51.5		"	50.0	103		81-123				
<i>Surrogate: Toluene-d8</i>	52.7		"	50.0	105		88-114				
<i>Surrogate: p-Bromofluorobenzene</i>	52.5		"	50.0	105		70-128				

LCS Dup (BH40890-BSD1)							Prepared & Analyzed: 08/15/2014				
Acetone	50.0		ug/L	50.0	100		21-172		4.54		30
Acrylonitrile	48.1		"	50.0	96.2		49-160		3.37		30
Benzene	48.2		"	50.0	96.4		82-120		2.17		30
Bromobenzene	54.8		"	50.0	110		82-119		2.61		30
Bromoform	50.5		"	50.0	101		69-125		3.25		30
Bromodichloromethane	54.1		"	50.0	108		84-117		0.553		30
Bromoform	52.2		"	50.0	104		77-130		2.44		30
Bromomethane	55.0		"	50.0	110		16-162		2.21		30
2-Butanone	50.4		"	50.0	101		48-156		0.672		30
sec-Butylbenzene	51.5		"	50.0	103		85-119		0.638		30
n-Butylbenzene	52.1		"	50.0	104		76-125		1.39		30
tert-Butylbenzene	55.5		"	50.0	111		83-119		1.49		30
Carbon disulfide	47.6		"	50.0	95.3	21-78	High Bias	1.73		30	
Carbon tetrachloride	48.7		"	50.0	97.5		72-132		1.43		30
Chlorobenzene	49.2		"	50.0	98.4		88-112		1.91		30
Chloroethane	48.2		"	50.0	96.3		29-172		10.2		30
Chloroform	49.0		"	50.0	97.9		77-124		1.38		30
Chloromethane	47.9		"	50.0	95.7		37-131		2.09		30
2-Chlorotoluene	50.2		"	50.0	100		81-118		2.30		30
4-Chlorotoluene	52.1		"	50.0	104		81-117		0.0960		30
1,2-Dibromo-3-chloropropane	56.0		"	50.0	112		60-146		9.41		30
Dibromochloromethane	53.0		"	50.0	106		72-131		0.454		30
1,2-Dibromoethane	52.3		"	50.0	105		82-122		1.01		30
Dibromomethane	50.8		"	50.0	102		85-116		1.51		30
trans-1,4-dichloro-2-butene	51.2		"	50.0	102		70-130		9.35		30
1,3-Dichlorobenzene	49.3		"	50.0	98.6		83-117		0.651		30
1,4-Dichlorobenzene	49.0		"	50.0	97.9		83-118		3.43		30
1,2-Dichlorobenzene	50.5		"	50.0	101		85-115		5.76		30



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH40890 - EPA 5030B											
LCS Dup (BH40890-BSD1)											
Prepared & Analyzed: 08/15/2014											
Dichlorodifluoromethane	44.1		ug/L	50.0	88.2	47-152			0.957	30	
1,1-Dichloroethane	50.4		"	50.0	101	70-131			1.56	30	
1,2-Dichloroethane	49.4		"	50.0	98.8	72-126			1.15	30	
cis-1,2-Dichloroethylene	49.0		"	50.0	98.1	77-124			0.655	30	
1,1-Dichloroethylene	47.6		"	50.0	95.2	60-143			1.23	30	
trans-1,2-Dichloroethylene	47.3		"	50.0	94.6	55-148			1.64	30	
2,2-Dichloropropane	49.9		"	50.0	99.8	60-135			1.08	30	
1,2-Dichloropropane	53.7		"	50.0	107	78-119			3.06	30	
1,3-Dichloropropane	53.2		"	50.0	106	79-121			1.65	30	
trans-1,3-Dichloropropylene	55.8		"	50.0	112	77-120			1.50	30	
1,1-Dichloropropylene	47.9		"	50.0	95.8	78-122			0.749	30	
cis-1,3-Dichloropropylene	54.2		"	50.0	108	81-117			1.08	30	
Ethyl Benzene	51.1		"	50.0	102	86-114			2.72	30	
Hexachlorobutadiene	52.6		"	50.0	105	68-139			6.01	30	
2-Hexanone	52.8		"	50.0	106	50-151			3.59	30	
Isopropylbenzene	53.6		"	50.0	107	84-118			3.43	30	
p-Isopropyltoluene	50.6		"	50.0	101	84-121			2.18	30	
Methyl tert-butyl ether (MTBE)	47.0		"	50.0	94.0	49-156			6.41	30	
Methylene chloride	49.0		"	50.0	97.9	51-145			0.409	30	
Methyl Methacrylate	54.4		"	50.0	109	70-130			1.02	30	
4-Methyl-2-pentanone	54.2		"	50.0	108	55-147			1.39	30	
Naphthalene	50.0		"	50.0	100	67-141			2.68	30	
n-Propylbenzene	52.8		"	50.0	106	84-118			0.741	30	
Styrene	52.7		"	50.0	105	77-126			2.75	30	
1,1,1,2-Tetrachloroethane	50.9		"	50.0	102	85-118			1.16	30	
1,1,2,2-Tetrachloroethane	52.9		"	50.0	106	71-130			3.03	30	
Tetrachloroethylene	50.6		"	50.0	101	75-129			1.64	30	
Tetrahydrofuran	49.2		"	50.0	98.5	70-130			1.06	30	
Toluene	52.1		"	50.0	104	86-113			2.17	30	
1,2,3-Trichlorobenzene	51.1		"	50.0	102	68-140			3.89	30	
1,2,4-Trichlorobenzene	50.3		"	50.0	101	65-143			0.719	30	
1,1,1-Trichloroethane	50.0		"	50.0	100	74-128			0.678	30	
1,1,2-Trichloroethane	51.8		"	50.0	104	80-122			1.28	30	
Trichloroethylene	51.9		"	50.0	104	85-115			3.53	30	
Trichlorofluoromethane	45.4		"	50.0	90.9	69-131			1.62	30	
1,2,3-Trichloropropane	49.2		"	50.0	98.4	77-125			3.12	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	70.0		"	50.0	140	51-157			4.29	30	
1,3,5-Trimethylbenzene	51.2		"	50.0	102	84-118			2.85	30	
1,2,4-Trimethylbenzene	51.5		"	50.0	103	83-121			3.10	30	
Vinyl Chloride	46.2		"	50.0	92.4	44-152			3.10	30	
o-Xylene	54.5		"	50.0	109	85-114			1.24	30	
p- & m- Xylenes	98.6		"	100	98.6	84-117			3.01	30	
Surrogate: 1,2-Dichloroethane-d4	48.9		"	50.0	97.9	81-123					
Surrogate: Toluene-d8	50.6		"	50.0	101	88-114					
Surrogate: p-Bromofluorobenzene	51.9		"	50.0	104	70-128					



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH40720 - EPA 3545A

Blank (BH40720-BLK1)

Prepared: 08/13/2014 Analyzed: 08/14/2014

Acenaphthene	ND	250	ug/kg wet								
Acenaphthylene	ND	250	"								
Aniline	ND	250	"								
Anthracene	ND	250	"								
Benzo(a)anthracene	ND	250	"								
Benzo(a)pyrene	ND	250	"								
Benzo(b)fluoranthene	ND	250	"								
Benzo(g,h,i)perylene	ND	250	"								
Benzo(k)fluoranthene	ND	250	"								
Benzyl butyl phthalate	ND	250	"								
4-Bromophenyl phenyl ether	ND	250	"								
4-Chloro-3-methylphenol	ND	250	"								
4-Chloroaniline	ND	250	"								
Bis(2-chloroethoxy)methane	ND	250	"								
Bis(2-chloroethyl)ether	ND	250	"								
Bis(2-chloroisopropyl)ether	ND	250	"								
2-Chloronaphthalene	ND	250	"								
2-Chlorophenol	ND	250	"								
4-Chlorophenyl phenyl ether	ND	250	"								
Chrysene	ND	250	"								
Dibenzo(a,h)anthracene	ND	250	"								
Dibenzofuran	ND	250	"								
Di-n-butyl phthalate	ND	250	"								
3,3'-Dichlorobenzidine	ND	250	"								
2,4-Dichlorophenol	ND	250	"								
Carbazole	ND	250	"								
Diethyl phthalate	ND	250	"								
2,4-Dimethylphenol	ND	250	"								
Dimethyl phthalate	ND	250	"								
4,6-Dinitro-2-methylphenol	ND	500	"								
2,4-Dinitrophenol	ND	500	"								
2,6-Dinitrotoluene	ND	250	"								
2,4-Dinitrotoluene	ND	250	"								
Di-n-octyl phthalate	ND	250	"								
Bis(2-ethylhexyl)phthalate	ND	250	"								
Fluoranthene	ND	250	"								
Fluorene	ND	250	"								
Hexachlorobenzene	ND	250	"								
Hexachlorobutadiene	ND	250	"								
Hexachlorocyclopentadiene	ND	250	"								
Hexachloroethane	ND	250	"								
Indeno(1,2,3-cd)pyrene	ND	250	"								
Isophorone	ND	250	"								
1-Methylnaphthalene	ND	250	"								
2-Methylnaphthalene	ND	250	"								
2-Methylphenol	ND	250	"								
3- & 4-Methylphenols	ND	250	"								
Naphthalene	ND	250	"								
3-Nitroaniline	ND	250	"								
4-Nitroaniline	ND	250	"								
2-Nitroaniline	ND	250	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH40720 - EPA 3545A

Blank (BH40720-BLK1)

											Prepared: 08/13/2014 Analyzed: 08/14/2014
Nitrobenzene	ND	250	ug/kg wet								
2-Nitrophenol	ND	250	"								
4-Nitrophenol	ND	250	"								
N-nitroso-di-n-propylamine	ND	250	"								
N-Nitrosodiphenylamine	ND	250	"								
Pentachloronitrobenzene	ND	250	"								
Pentachlorophenol	ND	250	"								
Phenanthrene	ND	250	"								
Phenol	ND	250	"								
Pyrene	ND	250	"								
Pyridine	ND	250	"								
1,2,4,5-Tetrachlorobenzene	ND	250	"								
1,2,4-Trichlorobenzene	ND	250	"								
2,4,6-Trichlorophenol	ND	250	"								
2,4,5-Trichlorophenol	ND	250	"								
<i>Surrogate: 2-Fluorophenol</i>	2600		"	3760		69.0	10-105				
<i>Surrogate: Phenol-d5</i>	1940		"	3750		51.7	10-118				
<i>Surrogate: Nitrobenzene-d5</i>	1680		"	2510		66.8	10-140				
<i>Surrogate: 2-Fluorobiphenyl</i>	1790		"	2500		71.6	10-126				
<i>Surrogate: 2,4,6-Tribromophenol</i>	2470		"	3750		65.8	10-150				
<i>Surrogate: Terphenyl-d14</i>	2660		"	2500		106	10-137				

LCS (BH40720-BS1)

											Prepared: 08/13/2014 Analyzed: 08/14/2014
Acenaphthene	2340	250	ug/kg wet	2500		93.8	17-124				
Acenaphthylene	2090	250	"	2500		83.5	16-124				
Aniline	1250	250	"	2500		50.1	10-111				
Anthracene	2440	250	"	2500		97.4	24-124				
Benzo(a)anthracene	2260	250	"	2500		90.3	25-134				
Benzo(a)pyrene	2820	250	"	2500		113	29-144				
Benzo(b)fluoranthene	2990	250	"	2500		120	20-151				
Benzo(g,h,i)perylene	1970	250	"	2500		78.7	10-153				
Benzo(k)fluoranthene	2340	250	"	2500		93.5	10-148				
Benzyl butyl phthalate	2680	250	"	2500		107	10-132				
4-Bromophenyl phenyl ether	2360	250	"	2500		94.5	30-138				
4-Chloro-3-methylphenol	2210	250	"	2500		88.4	16-138				
4-Chloroaniline	2000	250	"	2500		79.8	10-117				
Bis(2-chloroethoxy)methane	1570	250	"	2500		62.6	10-129				
Bis(2-chloroethyl)ether	1290	250	"	2500		51.5	14-125				
Bis(2-chloroisopropyl)ether	778	250	"	2500		31.1	14-122				
2-Chloronaphthalene	2060	250	"	2500		82.6	22-115				
2-Chlorophenol	1580	250	"	2500		63.0	25-121				
4-Chlorophenyl phenyl ether	2120	250	"	2500		84.8	18-132				
Chrysene	2730	250	"	2500		109	24-116				
Dibenzo(a,h)anthracene	1940	250	"	2500		77.7	17-147				
Dibenzofuran	2140	250	"	2500		85.7	23-123				
Di-n-butyl phthalate	2340	250	"	2500		93.4	19-123				
3,3'-Dichlorobenzidine	2610	250	"	2500		104	10-147				
2,4-Dichlorophenol	1920	250	"	2500		76.8	23-133				
Carbazole	2630	250	"	2500		105	31-120				
Diethyl phthalate	2460	250	"	2500		98.6	23-122				
2,4-Dimethylphenol	1800	250	"	2500		72.1	15-131				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH40720 - EPA 3545A											
LCS (BH40720-BS1)											
Prepared: 08/13/2014 Analyzed: 08/14/2014											
Dimethyl phthalate	2390	250	ug/kg wet	2500	95.8	28-127					
4,6-Dinitro-2-methylphenol	1300	500	"	2500	52.1	10-149					
2,4-Dinitrophenol	1800	500	"	2500	72.1	10-149					
2,6-Dinitrotoluene	2280	250	"	2500	91.1	30-125					
2,4-Dinitrotoluene	2770	250	"	2500	111	30-123					
Di-n-octyl phthalate	2740	250	"	2500	110	10-132					
Bis(2-ethylhexyl)phthalate	2150	250	"	2500	86.1	10-141					
Fluoranthene	2500	250	"	2500	99.9	36-125					
Fluorene	2210	250	"	2500	88.5	16-130					
Hexachlorobenzene	2500	250	"	2500	100	10-129					
Hexachlorobutadiene	2080	250	"	2500	83.3	22-153					
Hexachlorocyclopentadiene	704	250	"	2500	28.2	10-134					
Hexachloroethane	1600	250	"	2500	63.8	20-112					
Indeno(1,2,3-cd)pyrene	1900	250	"	2500	76.2	10-155					
Isophorone	1700	250	"	2500	67.8	14-131					
1-Methylnaphthalene	2000	250	"	2500	79.9	40-140					
2-Methylnaphthalene	2050	250	"	2500	81.9	16-127					
2-Methylphenol	2440	250	"	2500	97.5	10-146					
3- & 4-Methylphenols	1300	250	"	2500	52.0	20-109					
Naphthalene	1930	250	"	2500	77.1	20-121					
3-Nitroaniline	2040	250	"	2500	81.6	23-123					
4-Nitroaniline	2740	250	"	2500	110	14-125					
2-Nitroaniline	2360	250	"	2500	94.4	24-126					
Nitrobenzene	1580	250	"	2500	63.0	20-121					
2-Nitrophenol	1980	250	"	2500	79.3	17-129					
4-Nitrophenol	2100	250	"	2500	84.1	10-136					
N-nitroso-di-n-propylamine	1350	250	"	2500	53.9	21-119					
N-Nitrosodiphenylamine	2610	250	"	2500	105	10-163					
Pentachloronitrobenzene	3090	250	"	2500	124	40-140					
Pentachlorophenol	1680	250	"	2500	67.3	10-143					
Phenanthrene	2460	250	"	2500	98.2	24-123					
Phenol	1260	250	"	2500	50.2	15-123					
Pyrene	2800	250	"	2500	112	24-132					
Pyridine	897	250	"	2500	35.9	10-92					
1,2,4,5-Tetrachlorobenzene	2010	250	"	2500	80.6	10-144					
1,2,4-Trichlorobenzene	1920	250	"	2500	77.0	23-130					
2,4,6-Trichlorophenol	1880	250	"	2500	75.2	27-122					
2,4,5-Trichlorophenol	2010	250	"	2500	80.6	14-138					
Surrogate: 2-Fluorophenol	2460	"		3760	65.3	10-105					
Surrogate: Phenol-d5	1940	"		3750	51.6	10-118					
Surrogate: Nitrobenzene-d5	1660	"		2510	66.0	10-140					
Surrogate: 2-Fluorobiphenyl	1860	"		2500	74.3	10-126					
Surrogate: 2,4,6-Tribromophenol	3050	"		3750	81.4	30-130					
Surrogate: Terphenyl-d14	2700	"		2500	108	10-137					



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH40720 - EPA 3545A

LCS Dup (BH40720-BSD1)										Prepared: 08/13/2014 Analyzed: 08/14/2014	
Acenaphthene	2310	250	ug/kg wet	2500	92.6	17-124			1.27	30	
Acenaphthylene	2090	250	"	2500	83.5	16-124			0.0958	30	
Aniline	1230	250	"	2500	49.3	10-111			1.57	30	
Anthracene	2380	250	"	2500	95.3	24-124			2.20	30	
Benzo(a)anthracene	2300	250	"	2500	92.1	25-134			1.89	30	
Benzo(a)pyrene	2890	250	"	2500	116	29-144			2.41	30	
Benzo(b)fluoranthene	2780	250	"	2500	111	20-151			7.12	30	
Benzo(g,h,i)perylene	2250	250	"	2500	89.9	10-153			13.2	30	
Benzo(k)fluoranthene	2900	250	"	2500	116	10-148			21.6	30	
Benzyl butyl phthalate	2760	250	"	2500	110	10-132			2.70	30	
4-Bromophenyl phenyl ether	2290	250	"	2500	91.6	30-138			3.14	30	
4-Chloro-3-methylphenol	2100	250	"	2500	84.2	16-138			4.84	30	
4-Chloroaniline	2110	250	"	2500	84.4	10-117			5.55	30	
Bis(2-chloroethoxy)methane	1550	250	"	2500	62.1	10-129			0.930	30	
Bis(2-chloroethyl)ether	1360	250	"	2500	54.4	14-125			5.44	30	
Bis(2-chloroisopropyl)ether	826	250	"	2500	33.0	14-122			5.92	30	
2-Chloronaphthalene	2000	250	"	2500	80.1	22-115			3.10	30	
2-Chlorophenol	1630	250	"	2500	65.1	25-121			3.25	30	
4-Chlorophenyl phenyl ether	2060	250	"	2500	82.5	18-132			2.70	30	
Chrysene	2750	250	"	2500	110	24-116			0.656	30	
Dibenzo(a,h)anthracene	2210	250	"	2500	88.5	17-147			13.0	30	
Dibenzofuran	2110	250	"	2500	84.4	23-123			1.58	30	
Di-n-butyl phthalate	2360	250	"	2500	94.5	19-123			1.17	30	
3,3'-Dichlorobenzidine	2750	250	"	2500	110	10-147			5.26	30	
2,4-Dichlorophenol	1890	250	"	2500	75.4	23-133			1.84	30	
Carbazole	2630	250	"	2500	105	31-120			0.171	30	
Diethyl phthalate	2460	250	"	2500	98.5	23-122			0.0609	30	
2,4-Dimethylphenol	1780	250	"	2500	71.2	15-131			1.17	30	
Dimethyl phthalate	2390	250	"	2500	95.5	28-127			0.251	30	
4,6-Dinitro-2-methylphenol	1500	500	"	2500	60.0	10-149			14.2	30	
2,4-Dinitrophenol	1860	500	"	2500	74.5	10-149			3.25	30	
2,6-Dinitrotoluene	2260	250	"	2500	90.3	30-125			0.882	30	
2,4-Dinitrotoluene	2750	250	"	2500	110	30-123			0.887	30	
Di-n-octyl phthalate	2800	250	"	2500	112	10-132			2.36	30	
Bis(2-ethylhexyl)phthalate	2220	250	"	2500	88.7	10-141			3.00	30	
Fluoranthene	2440	250	"	2500	97.5	36-125			2.43	30	
Fluorene	2210	250	"	2500	88.4	16-130			0.0678	30	
Hexachlorobenzene	2410	250	"	2500	96.5	10-129			3.70	30	
Hexachlorobutadiene	2090	250	"	2500	83.7	22-153			0.527	30	
Hexachlorocyclopentadiene	680	250	"	2500	27.2	10-134			3.47	30	
Hexachloroethane	1610	250	"	2500	64.3	20-112			0.750	30	
Indeno(1,2,3-cd)pyrene	2280	250	"	2500	91.1	10-155			17.9	30	
Isophorone	1690	250	"	2500	67.7	14-131			0.207	30	
1-Methylnaphthalene	2030	250	"	2500	81.2	40-140			1.66	30	
2-Methylnaphthalene	2050	250	"	2500	82.0	16-127			0.195	30	
2-Methylphenol	2510	250	"	2500	100	10-146			2.89	30	
3- & 4-Methylphenols	1280	250	"	2500	51.2	20-109			1.55	30	
Naphthalene	1950	250	"	2500	77.9	20-121			1.06	30	
3-Nitroaniline	2010	250	"	2500	80.5	23-123			1.41	30	
4-Nitroaniline	2620	250	"	2500	105	14-125			4.45	30	
2-Nitroaniline	2390	250	"	2500	95.5	24-126			1.16	30	



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH40720 - EPA 3545A											
LCS Dup (BH40720-BSD1)											
Prepared: 08/13/2014 Analyzed: 08/14/2014											
Nitrobenzene	1640	250	ug/kg wet	2500	65.5	20-121			3.83	30	
2-Nitrophenol	1930	250	"	2500	77.3	17-129			2.63	30	
4-Nitrophenol	2080	250	"	2500	83.4	10-136			0.836	30	
N-nitroso-di-n-propylamine	1350	250	"	2500	54.0	21-119			0.148	30	
N-Nitrosodiphenylamine	2600	250	"	2500	104	10-163			0.729	30	
Pentachloronitrobenzene	3030	250	"	2500	121	40-140			1.91	30	
Pentachlorophenol	1660	250	"	2500	66.2	10-143			1.68	30	
Phanthrene	2450	250	"	2500	98.0	24-123			0.265	30	
Phenol	1210	250	"	2500	48.2	15-123			4.10	30	
Pyrene	2870	250	"	2500	115	24-132			2.66	30	
Pyridine	900	250	"	2500	36.0	10-92			0.389	30	
1,2,4,5-Tetrachlorobenzene	1990	250	"	2500	79.5	10-144			1.35	30	
1,2,4-Trichlorobenzene	1940	250	"	2500	77.4	23-130			0.596	30	
2,4,6-Trichlorophenol	1880	250	"	2500	75.4	27-122			0.212	30	
2,4,5-Trichlorophenol	2030	250	"	2500	81.3	14-138			0.890	30	
Surrogate: 2-Fluorophenol	2430		"	3760	64.7	10-105					
Surrogate: Phenol-d5	2000		"	3750	53.5	10-118					
Surrogate: Nitrobenzene-d5	1660		"	2510	66.1	10-140					
Surrogate: 2-Fluorobiphenyl	1850		"	2500	73.9	10-126					
Surrogate: 2,4,6-Tribromophenol	2960		"	3750	78.8	30-130					
Surrogate: Terphenyl-d14	2690		"	2500	108	10-137					



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH40723 - EPA 3545 A

Blank (BH40723-BLK1)

											Prepared: 08/13/2014 Analyzed: 08/14/2014
4,4'-DDD	ND	0.330	ug/kg wet								
4,4'-DDE	ND	0.330	"								
4,4'-DDT	ND	0.330	"								
Alachlor	ND	0.330	"								
Aldrin	ND	0.330	"								
alpha-BHC	ND	0.330	"								
beta-BHC	ND	0.330	"								
Chlordane, total	ND	1.32	"								
delta-BHC	ND	0.330	"								
Dieldrin	ND	0.330	"								
Endosulfan I	ND	0.330	"								
Endosulfan II	ND	0.330	"								
Endosulfan sulfate	ND	0.330	"								
Endrin	ND	0.330	"								
Endrin aldehyde	ND	0.330	"								
Endrin ketone	ND	0.330	"								
gamma-BHC (Lindane)	ND	0.330	"								
Heptachlor	ND	0.330	"								
Heptachlor epoxide	ND	0.330	"								
Methoxychlor	ND	1.65	"								
Toxaphene	ND	16.7	"								
<i>Surrogate: Decachlorobiphenyl</i>	82.2		"	100		82.2	30-140				
<i>Surrogate: Tetrachloro-m-xylene</i>	79.2		"	100		79.2	30-140				

LCS (BH40723-BS1)

											Prepared: 08/13/2014 Analyzed: 08/14/2014
4,4'-DDD	46.4	0.330	ug/kg wet	50.0		92.8	40-140				
4,4'-DDE	48.5	0.330	"	50.0		97.0	40-140				
4,4'-DDT	50.5	0.330	"	50.0		101	40-140				
Alachlor	42.6	0.330	"	50.0		85.1	40-140				
Aldrin	40.5	0.330	"	50.0		80.9	40-140				
alpha-BHC	46.7	0.330	"	50.0		93.3	40-140				
beta-BHC	45.7	0.330	"	50.0		91.5	40-140				
delta-BHC	50.1	0.330	"	50.0		100	40-140				
Dieldrin	46.0	0.330	"	50.0		92.1	40-140				
Endosulfan I	45.4	0.330	"	50.0		90.7	40-140				
Endosulfan II	43.2	0.330	"	50.0		86.4	40-140				
Endosulfan sulfate	49.1	0.330	"	50.0		98.2	40-140				
Endrin	44.6	0.330	"	50.0		89.3	40-140				
Endrin aldehyde	40.2	0.330	"	50.0		80.4	40-140				
Endrin ketone	45.1	0.330	"	50.0		90.2	40-140				
gamma-BHC (Lindane)	45.6	0.330	"	50.0		91.3	40-140				
Heptachlor	41.7	0.330	"	50.0		83.5	40-140				
Heptachlor epoxide	43.2	0.330	"	50.0		86.4	40-140				
Methoxychlor	43.1	1.65	"	50.0		86.2	40-140				
<i>Surrogate: Decachlorobiphenyl</i>	112		"	100		112	30-140				
<i>Surrogate: Tetrachloro-m-xylene</i>	112		"	100		112	30-140				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BH40723 - EPA 3545 A											
LCS Dup (BH40723-BSD1)											
Prepared: 08/13/2014 Analyzed: 08/14/2014											
4,4'-DDD	48.2	0.330	ug/kg wet	50.0	96.4	40-140			3.78	30	
4,4'-DDE	50.6	0.330	"	50.0	101	40-140			4.16	30	
4,4'-DDT	52.6	0.330	"	50.0	105	40-140			3.95	30	
Alachlor	43.9	0.330	"	50.0	87.8	40-140			3.14	30	
Aldrin	41.9	0.330	"	50.0	83.9	40-140			3.53	30	
alpha-BHC	48.2	0.330	"	50.0	96.5	40-140			3.32	30	
beta-BHC	47.0	0.330	"	50.0	94.1	40-140			2.78	30	
delta-BHC	51.6	0.330	"	50.0	103	40-140			2.79	30	
Dieldrin	47.7	0.330	"	50.0	95.4	40-140			3.57	30	
Endosulfan I	47.3	0.330	"	50.0	94.6	40-140			4.18	30	
Endosulfan II	44.9	0.330	"	50.0	89.8	40-140			3.86	30	
Endosulfan sulfate	50.4	0.330	"	50.0	101	40-140			2.65	30	
Endrin	46.2	0.330	"	50.0	92.4	40-140			3.45	30	
Endrin aldehyde	41.3	0.330	"	50.0	82.6	40-140			2.73	30	
Endrin ketone	46.8	0.330	"	50.0	93.6	40-140			3.65	30	
gamma-BHC (Lindane)	47.0	0.330	"	50.0	94.1	40-140			3.03	30	
Heptachlor	43.1	0.330	"	50.0	86.3	40-140			3.28	30	
Heptachlor epoxide	44.7	0.330	"	50.0	89.3	40-140			3.36	30	
Methoxychlor	44.8	1.65	"	50.0	89.6	40-140			3.79	30	
Surrogate: Decachlorobiphenyl	117		"	100	117	30-140					
Surrogate: Tetrachloro-m-xylene	114		"	100	114	30-140					



Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	RPD Flag
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Batch BH40723 - EPA 3545 A

Blank (BH40723-BLK1)

Prepared: 08/13/2014 Analyzed: 08/14/2014

Aroclor 1016	ND	0.0250	mg/kg wet								
Aroclor 1221	ND	0.0250	"								
Aroclor 1232	ND	0.0250	"								
Aroclor 1242	ND	0.0250	"								
Aroclor 1248	ND	0.0250	"								
Aroclor 1254	ND	0.0250	"								
Aroclor 1260	ND	0.0250	"								
Aroclor 1262	ND	0.0250	"								
Aroclor 1268	ND	0.0250	"								
Total PCBs	ND	0.0250	"								

Surrogate: Tetrachloro-m-xylene	0.0870	"	0.100	87.0	30-140
Surrogate: Decachlorobiphenyl	0.0605	"	0.100	60.5	30-140

LCS (BH40723-BS2)

Prepared: 08/13/2014 Analyzed: 08/14/2014

Aroclor 1016	0.489	0.0250	mg/kg wet	0.500	97.9	40-130
Aroclor 1260	0.417	0.0250	"	0.500	83.3	40-130
Surrogate: Tetrachloro-m-xylene	0.0850	"	0.100	85.0	30-140	
Surrogate: Decachlorobiphenyl	0.0540	"	0.100	54.0	30-140	



Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH40763 - EPA 3550B/8151A

Blank (BH40763-BLK1)

Dicamba	ND	20.0	ug/kg wet								
2,4-D	ND	20.0	"								
2,4,5-TP (Silvex)	ND	20.0	"								
2,4,5-T	ND	20.0	"								
Dalapon	ND	20.0	"								
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	425		"	500		85.0	30-150				

Prepared: 08/13/2014 Analyzed: 08/14/2014

LCS (BH40763-BS1)

Dicamba	75.0	20.0	ug/kg wet	160	46.9	40-140					
2,4-D	79.0	20.0	"	160	49.4	40-140					
2,4,5-TP (Silvex)	73.0	20.0	"	160	45.6	40-140					
2,4,5-T	71.0	20.0	"	160	44.4	40-140					
Dalapon	25.0	20.0	"	160	15.6	40-140	Low Bias				
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	306		"	500	61.2	30-150					

Prepared: 08/13/2014 Analyzed: 08/14/2014

LCS Dup (BH40763-BSD1)

Dicamba	78.0	20.0	ug/kg wet	160	48.8	40-140			3.92	30	
2,4-D	85.0	20.0	"	160	53.1	40-140			7.32	30	
2,4,5-TP (Silvex)	83.0	20.0	"	160	51.9	40-140			12.8	30	
2,4,5-T	80.0	20.0	"	160	50.0	40-140			11.9	30	
Dalapon	29.0	20.0	"	160	18.1	40-140	Low Bias		14.8	30	
Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)	273		"	500	54.6	30-150					

Prepared: 08/13/2014 Analyzed: 08/14/2014



Gas Chromatography/Flame Ionization Detector - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD RPD	RPD Limit	RPD Flag
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Batch BH40908 - EPA 3545A

Blank (BH40908-BLK1)

ETPH (Extractable Total Petroleum Hydrocarbons)	ND	10.0	mg/kg wet						Prepared: 08/18/2014	Analyzed: 08/19/2014
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Surrogate: 1-Chlorooctadecane

7.79 " 10.0 77.9 50-150

LCS (BH40908-BS1)

ETPH (Extractable Total Petroleum Hydrocarbons)	60.9	10.0	mg/kg wet	75.0	81.2	60-120			Prepared: 08/18/2014	Analyzed: 08/19/2014
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Surrogate: 1-Chlorooctadecane

8.66 " 10.0 86.6 50-150

LCS Dup (BH40908-BSD1)

ETPH (Extractable Total Petroleum Hydrocarbons)	60.8	10.0	mg/kg wet	75.0	81.1	60-120			Prepared: 08/18/2014	Analyzed: 08/19/2014
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Surrogate: 1-Chlorooctadecane

8.09 " 10.0 80.9 50-150

**Metals by ICP - Quality Control Data****York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	RPD Flag
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Batch BH40842 - EPA 3050B**Blank (BH40842-BLK1)**

Prepared & Analyzed: 08/15/2014

Antimony	ND	0.500	mg/kg wet								
Arsenic	ND	1.00	"								
Barium	ND	1.00	"								
Beryllium	ND	0.100	"								
Cadmium	ND	0.300	"								
Chromium	ND	0.500	"								
Copper	ND	0.500	"								
Lead	ND	0.300	"								
Nickel	ND	0.500	"								
Selenium	ND	1.00	"								
Silver	ND	0.500	"								
Thallium	ND	1.00	"								
Vanadium	ND	1.00	"								
Zinc	ND	1.00	"								

Reference (BH40842-SRM1)

Prepared & Analyzed: 08/15/2014

Antimony	119	0.500	mg/kg wet	129	92.2	22.4-250					
Arsenic	81.2	1.00	"	88.4	91.8	69-131					
Barium	183	1.00	"	210	87.3	73.3-127					
Beryllium	51.5	0.100	"	55.8	92.2	73.1-127					
Cadmium	125	0.300	"	142	87.8	73.2-128					
Chromium	74.2	0.500	"	86.8	85.5	69.1-131					
Copper	255	0.500	"	268	95.3	76.1-124					
Lead	85.6	0.300	"	97.9	87.4	70.8-129					
Nickel	221	0.500	"	236	93.8	74.2-128					
Selenium	117	1.00	"	127	92.1	66.6-134					
Silver	57.3	0.500	"	66.2	86.6	67.1-133					
Thallium	124	1.00	"	140	88.7	68.3-132					
Vanadium	134	1.00	"	156	85.6	71.8-129					
Zinc	111	1.00	"	161	69.1	66.9-133					



Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	RPD Flag
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Batch BH40795 - EPA 7473 soil

Blank (BH40795-BLK1)

Prepared & Analyzed: 08/14/2014

Mercury	ND	0.0300	mg/kg wet
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Reference (BH40795-SRM1)

Prepared & Analyzed: 08/14/2014

Mercury	3.2393	mg/kg	3.73	86.8	68.6-131
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Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
14H0523-06	SB-6 2-3'	40mL Vial with Stir Bar-Cool 4° C
14H0523-07	SB-7 1-2'	40mL Vial with Stir Bar-Cool 4° C
14H0523-08	SB-8 1-2'	40mL Vial with Stir Bar-Cool 4° C
14H0523-11	TB-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Notes and Definitions

VOA-Air	Air bubbles were present in vial upon receipt by lab.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-BCCB	Analyte in CCB > MDL. Sample conc. >10 X blank conc.
M-ACCB	Analyte in CCB. Run is bracketed by acceptable CCBs.
GC-Surr	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the alternate surrogate.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.

ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence . This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.

LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.

MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.

Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.

For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.



Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

Corrective Action: The client requested additional testing for sample SB-3 0-1 on 8/19/14.

Revision Description: Separate report per Client

APPENDIX D

WETLAND DELINEATION REPORT

August 8, 2014

Ryan J Wohlstrom
Project Engineer
LANGAN Engineering
Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, CT 06511-6107

RE: Wetland delineation, New Lebanon School property, Greenwich

Dear Mr. Wohlstrom,

EPS was retained to delineate the wetlands and watercourses on the above referenced site. The wetland delineation was conducted by a soil scientist, according to the requirements of the CT Inland Wetlands and Watercourses Act (P.A. 155). Wetlands are defined as areas of poorly drained, very poorly drained, floodplain, and alluvial soils, as delineated by a soil scientist. Watercourses are defined as bogs, swamps, or marshes, as well as lakes, ponds, rivers, streams, etc., whether natural or man-made, permanent or intermittent.

The wetland and watercourse delineation was conducted on August 7, 2014 by examining the upper 20" of the soil profile with an auger. Those areas meeting the requirements noted above were marked with blue plastic tape labeled "WL" and numbered 1/16. A single wetland was delineated in the low swale located downslope (southeast) of the existing building. This wetland has been historically altered, as indicated by the presence of shallow fill, the presence of underdrains (two inlets were observed, outlet location unknown) and compacted gravelly fill located in areas immediately adjacent to the wetland.

Based on field observations as well as a review of the Natural Resources Conservation Service's Soil Survey Geographic Database (SSURGO), wetland soils consist of Aquents. The Aquents map unit is a miscellaneous land type used to denote man-made or man-disturbed areas that are wet. These soils have an aquic soil moisture regime and can be expected to support hydrophytic vegetation. Typically, these soils occur in places where less than 2 feet of earthen material have been placed over poorly or very poorly drained soils; areas where the natural soils have been mixed so that the natural soil layers are not identifiable; or where the soil materials have been excavated to the watertable.

Upland (non-wetland) soils consist of the Udorthents as well as the Hollis-Chatfield-rock outcrop complex. The Hollis series consists of shallow, well drained and somewhat excessively drained soils formed in a thin mantle of glacial till derived mainly from gneiss, schist, and granite. They are nearly level to very steep upland soils on bedrock controlled hills and ridges. Depth to hard bedrock ranges from 10 to 20 inches. Bedrock outcrops vary from few to many.

The Chatfield series consists of moderately deep, well drained, and somewhat excessively drained soils formed in till. They are nearly level to very steep soils on glaciated plains, hills, and ridges. Slope ranges

from 0 to 70 percent. Crystalline bedrock is at depths of 20 to 40 inches. The soils formed in a moderately thick mantle of glacial till overlying granite, gneiss, or schist bedrock. Rock outcrops are rare to common and are limited to the more resistant bedrock.

Udorthents is a miscellaneous land type used to denote moderately well to excessively drained earthen material which has been so disturbed by cutting, filling, or grading that the original soil profile can no longer be discerned.

If you have any questions regarding my findings please feel free to contact me.

Respectfully submitted,



Eric Davison
Registered Soil Scientist
Certified Professional Wetland Scientist

