

31 July 2015

Mr. Ron Matten
Director of Facilities
Greenwich Public Schools
290 Greenwich Avenue
Greenwich, CT 06830

Re: Arsenic Delineation Report
William Street Ball Field
William Street West and Church Street
Greenwich, Connecticut
Langan Project No.: 140109002

Dear Mr. Matten,

Langan CT, Inc. (Langan) prepared this report to document the results of the horizontal and vertical delineation of arsenic in soils, performed on behalf of AKF Group, LLC (AKF), for the William Street Ball Field (also known as 'Byram Field') located at the intersection of William Street West and Church Street in the Town of Greenwich, Connecticut (hereafter referred to as the "Site"). The Site encompasses approximately 55,000 square feet (SF) 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 Site is improved with a public ball field. This letter report describes the sampling methodology, field observations, and analytical results of the shallow subsurface investigation, which included the completion of 84 shallow soil borings (collected at depths ranging from 0 to 4 feet below grade) to investigate the horizontal and vertical extent of soils impacted with arsenic at the Site.

PREVIOUS ENVIRONMENTAL INVESTIGATONS

Langan conducted a Limited Phase II Environmental Site Investigation (ESI) at the Site in August 2014 (see Attachment A), which included the completion of three environmental soil borings and the collection/analysis of three shallow soil samples. Soil analytical testing results obtained during the Limited Phase II ESI were compared to the Connecticut Department of Energy and Environmental Protection's (CTDEEP) Remediation Standard Regulations (RSRs) Residential Direct Exposure Criteria (RDEC) and the Industrial/Commercial Direct Exposure Criteria (I/C DEC), which in both cases is 10 milligrams per kilogram (mg/kg). The DEC is established to protect human health from risks associated with direct exposure to pollutants in contaminated soil within 15 feet of the ground surface. Laboratory analytical results of the subsurface material identified concentrations of arsenic exceeding the DEC in two of the three borings at depths ranging from 1 to 2 feet below grade surface (bgs). Arsenic was detected at a

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concentration of 144 and 89.2 mg/kg in SB-7 and SB-8, respectively; above the DEC of 10 mg/kg.

Based on a review of historical aerial photographs, the ball field was constructed sometime before 1934 and the source of material used to grade and construct the field, if any, is unknown.

Langan conducted a supplemental investigation in March 2015 to investigate the extent of shallow arsenic-impacted soils at the Site (see Attachment A), which included the completion of 20 shallow hand auger soil borings (0 to 1 feet bgs) and collection of 20 grab soil samples (plus one QA/QC duplicate sample). The sampling locations were based on a grid system to cover the entire footprint of the ball field (including the infield and dugout areas) at a frequency of approximately 1 sample per 2,700 square feet. Arsenic was detected at concentrations exceeding the DEC in five soil samples (plus the duplicate QA/QC duplicate sample). These exceedance locations included HA-5 (94.3 mg/kg), HA-6 (214 mg/kg), HA-8 (16.7 mg/kg), HA-10 (18 mg/kg), HA-13 (132 mg/kg), and DUP-1 (152 mg/kg). Arsenic was detected at the remaining locations at concentrations above laboratory reporting limits but below the DEC.

FIELD INVESTIGATION

Geophysical Survey

Prior to initiation of soil borings, a geophysics 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 locate the gas main that runs beneath the Site. The geophysical report and associated images and map are provided as Attachment B.

The GPR survey identified scattered anomalies located the Site, which were determined to be inconsistent with underground storage tanks. The survey also identified a subsurface natural gas pipeline that bisects the field. The pipeline enters the northeastern portion of the Site along William Street West, runs south-southwest across the infield and outfield portions of the ball field, and exits the Site at the central southern boundary along the paved access road.

<u>Horizontal and Vertical Delineation of Arsenic in Soil</u>

As stated above, arsenic was detected above the DEC in soil samples collected from 0 to 1 feet bgs at five locations and from 1 to 2 feet bgs at two locations at the Site. The supplemental delineation sampling activities described below were conducted over two

mobilizations and included a total of 84 soil borings to horizontally and vertically delineate arsenic in soil.

During our first mobilization (delineation activities conducted from 30 April 2015 to 1 May 2015), Langan advanced 51 delineation soil borings. In general, approximately nine new borings were advanced at each of the previous exceedance locations: one in the same location as the original boring (to delineate the vertical extent of impacts); four borings around the original location (offset approximately 10 feet to the north, east, south, and west); and four additional step-out borings, completed approximately 10 feet beyond the first set of borings (to delineate the horizontal extent of the impacts). QA/QC measures included the collection of three duplicate soil samples and one equipment blank sample.

Based on a review of the analytical results from the April/May 2015 mobilization, Langan initiated a second mobilization to further delineate arsenic levels in soil. The second mobilization included the completion of 33 additional soil borings, which were located with the intent of delineating reported arsenic concentrations of above 20 mg/kg. At each of the previous exceedance locations, approximately four new borings were advanced: two borings around the original location (offset approximately 10 feet) and two additional step-out borings (offset approximately 10 feet beyond the first set of borings). Grab samples were collected at each boring at intervals of 0 to 1 foot, 1 to 2 feet, 2 to 3 feet, and 3 to 4 feet bgs. QA/QC measures included the collection of one duplicate soil sample and one equipment blank sample.

Samples collected from the delineation soil borings were only analyzed if exceedances were identified in the shallower/inner borings. All samples were collected in laboratory provided glassware, placed in coolers packed with ice, and submitted to York Analytical Laboratories, Inc. (York), a Connecticut-certified laboratory, for analysis of total arsenic under standard chain-of-custody (COC) procedures.

OBSERVATIONS AND RESULTS

Soil Sample Analytical Results

A total of 126 samples were submitted for laboratory analysis, including four duplicate samples. Analytical results were compared to the RDEC and I/C DEC for arsenic. The soil analytical results are presented in Table 1 and Figure 2.

Arsenic

Samples with concentrations exceeding the R and I/C DEC originated from the following soil borings, organized by depth interval:

0 to 1 feet bgs

HA-5-E1	HA-5-E2	HA-5-E3	HA-5-E6	HA-5-N1	HA-5-N2
HA-5-N3	HA-5-N4	HA-5-N5	HA-5-S1	HA-6-N1	HA-10-E1
HA-10-E2	HA-10-N1	HA-10-N2	HA-10-NE1	HA-10-S1	HA-10-S2
HA-10-W1	HA-10-W2	HA-10-W3	HA-13-E1	HA-13-E2	HA-13-N1
HA-13-N2	HA-13-N4	HA-13-N5	HA-13-N6	HA-13-S1	HA-13-S2
HA-13-W1	HA-13-W2	HA-13-W3	HA-13-SW1	HA-21-N1	HA-21-N2
HA-21-NE1	HA-22-N1	HA-22-S1	HA-22-W1		

1 to 2 feet bgs

HA-5-E2	HA-5-N1	HA-5-N2	HA-5-N4	HA-5-S1	HA-10-W2
HA-10-W3	HA-13-W1	HA-13-W2	HA-21-N1	HA-22-N1	HA-22-S1

CONCLUSIONS

Our investigation included a geophysical survey, the completion of 84 environmental soil borings, and the analysis of 126 soil samples for arsenic. Soil analytical testing data was compared to the CTDEEP RSR Direct Exposure Criteria (DEC). Our conclusions are as follows:

- The GPR survey identified anomalies throughout the site that were determined not to be USTs. A subsurface natural gas pipeline was located, which bisects the Site, running south-southwest from the northeastern corner of the Site to the central-southern portion of the Site.
- Laboratory analytical results of the shallow subsurface material (0 to 1 feet bgs) identified concentrations of arsenic ranging from 11.1 to 500 mg/kg, exceeding the DEC of 10 mg/kg, in 40 of the 84 sampling locations throughout the Site (not including the original five exceedance locations: HA-5, HA-6, HA-8, HA-10 and HA-13). Therefore, a total of 45 of 0- to 1-foot samples collected at the Site have been reported to contain DEC exceedances.
- At the 45 locations noted above, laboratory analytical results of samples collected at the next interval (1 to 2 feet bgs) identified concentrations of arsenic ranging from 10.3 to 40.8 mg/kg, exceeding the DEC of 10 mg/kg, in 12 of the 45 sampling locations (not including the original two exceedance locations: SB-7/HA-22 and SB-8/HA-21). Therefore, a total of 14 of the 1- to 2-foot samples collected at the Site have been reported to contain DEC exceedances.
- At the 14 boring locations noted above, laboratory analytical results of samples collected at the next interval (2 to 3 feet bgs) identified concentrations of arsenic ranging from 1.19 to 9.54 mg/kg, below the DEC of 10 mg/kg, in all 14 sampling locations.

- Laboratory analysis of one of the delineation samples collected at the Site, HA-22-S1, (from the 0 to 1 foot interval) detected arsenic at a concentration of 500 mg/kg. According to the CT DEEP, this detection qualifies as a Significant Environmental Hazard (SEH) since the concentration is greater than 30 times the DEC of 10 mg/kg and is within two feet of the surface. No other SEH exceedances were identified at the Site. To address the SEH, Langan will prepare a written notification for submission to CTDEEP that will provide information regarding the location of the SEH, how the pollutant was discovered, and proposed actions to abate the hazard.
- Given the intended use of the Site, Langan recommends that a plan to mitigate arsenic concentrations in shallow soils exceeding the DEC, be incorporated into the future redevelopment activities at the Site.

This letter report does not constitute a full characterization of the site soils. Should future work yield an export of soils, we would recommend a waste characterization sampling program to characterize those soils slated for offsite disposal.

LIMITATIONS

This Arsenic Delineation Report was prepared expressly for the AKF Group, LLC for the William Street Ball Field property located at the intersection of William Street West and Church Street, and for the objectives defined herein. Langan cannot assume responsibility for the use of this report for any property other than the specific site addressed in this report, or by any third party without specific written authorization from Langan.

The conclusions and opinions provided in this report are based on subsurface conditions ascertained from the analysis of a limited number of samples. Actual conditions encountered may differ substantially from those presented herein and should be brought to our attention whereby we may determine how such changes may affect our conclusions.

CLOSURE

Should you have any questions regarding the findings presented in this report, please feel free to call us at 203-784-3069.

Sincerely,

Langan CT, Inc.

Ryan J. Wohlstrom Project Engineer

Jamie P. Barr, L.E.P.

Senior Associate/Vice President

Enclosures: Table 1 – Arsenic Delineation Sample Results

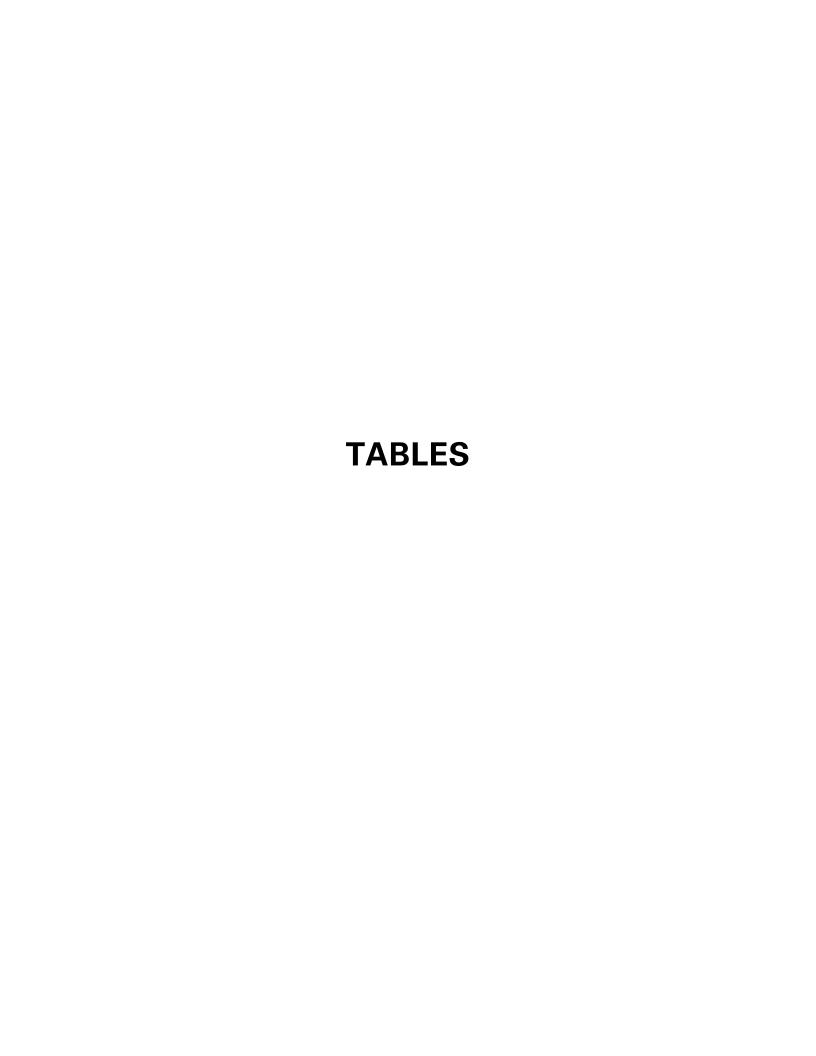
Figure 1 – Site Location Map

Figure 2 – Soil Analytical Results Map Attachment A – Previous Reports

Attachment B – Geophysical Engineering Survey Report

Attachment C - Laboratory Analytical Reports

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Arsenic Delineation Sample Results

William Street Baseball Field Greenwich, Connecticut

Langan Project No.: 140109002

Sample Location	Residential Direct	HA-5 (1-2)	HA-5-E1 (0-1)	HA-5-E1 (1-2)	HA-5-E2 (0-1)	HA-5-E2 (1-2)	HA-5-E2 (2-3)	HA-5-E3 (0-1)	HA-5-E3 (1-2)	HA-5-E4 (0-1)
York ID	Exposure Criteria	15E0078-12	15E0078-30	15E0078-31	15E0078-26	15E0078-27	15E0078-28	15F0769-67	15F0769-68	15F0769-59
Sample Date and Time	Industrial/ Commercial	4/30/2015 18:55	4/30/2015 19:44	4/30/2015 19:45	4/30/2015 19:40	4/30/2015 7:41	4/30/2015 19:42	6/18/15 11:11	6/18/2015 11:12	6/18/15 11:01
Parameters	Direct Exposure Criteria									
Metals (mg/kg)										
Arsenic	10	9.15	37.1	5.21	22.4	11.2	4	11.10	4.90	7.15

NOTES:

NE = Not established

ND = Not detected

ND* = Reporting limit above criteria

NT = Not tested

mg/kg = milligrams per kilograms

* = For those compounds that do not have certain criteria established within the CTDEEP RSRs effective 30 January 1996 and or 27 June 2013, additional polluting substance crtieria 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.

Arsenic Delineation Sample Results William Street Baseball Field

Greenwich, Connecticut

Langan Project No.: 140109002

Sample Location	Residential Direct	HA-5-E5 (0-1)	HA-5-E6 (0-1)	HA-5-E6 (1-2)	HA-5-N1 (0-1)	HA-5-N1 (1-2)	HA-5-N1 (2-3)	HA-5-N2 (0-1)	HA-5-N2 (1-2)	HA-5-N2 (2-3)
York ID	Exposure Criteria	15F0769-71	15F0769-63	15F0769-64	15E0078-22	15E0078-23	15E0078-24	15E0078-18	15E0078-19	15E0078-20
Sample Date and Time	Industrial/ Commercial	6/18/2015 11:16	6/18/2015 11:06	6/18/2015 11:07	4/30/2015 19:25	4/30/2015 19:26	4/30/2015 19:27	4/30/2015 19:20	4/30/2015 19:42	4/30/2015 19:22
Parameters	Direct Exposure Criteria									
Metals (mg/kg)										
Arsenic	10	6.60	31.70	4.44	174	13.7	5.13	72.3	17.8	3.07

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Arsenic Delineation Sample Results William Street Baseball Field

Greenwich, Connecticut

Langan Project No.: 140109002

Sample Location	Residential Direct	HA-5-N3 (0-1)	HA-5-N3 (1-2)	HA-5-N4 (0-1)	HA-5-N4 (1-2)	HA-5-N4 (2-3)	HA-5-N5 (0-1)	HA-5-N5 (1-2)	HA-5-N6 (0-1)	HA-5-S1 (0-1)
York ID	Exposure Criteria	15F0769-83	15F0769-84	15F0769-75	15F0769-76	15F0769-77	15F0769-87	15F0769-88	15F0769-79	15E0078-34
Sample Date and Time	Industrial/ Commercial	6/18/2015 11:31	6/18/2015 11:32	6/18/2015 11:21	6/18/2015 11:22	6/18/2015 11:23	6/18/2015 11:36	6/18/2015 11:37	6/18/2015 11:26	4/30/2015 20:00
Parameters	Direct Exposure Criteria									
Metals (mg/kg)										
Arsenic	10	55.80	9.77	62.10	14.50	4.88	13.30	9.84	7.41	12.8

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Arsenic Delineation Sample Results

William Street Baseball Field Greenwich, Connecticut

Langan Project No.: 140109002

Sample Location	Residential Direct	HA-5-S1 (1-2)	HA-5-S1 (2-3)	HA-5-S2 (0-1)	HA-6 (1-2)	HA-6-N1 (0-1)	HA-6-N1 (1-2)	HA-6-S1 (0-1)	HA-6-W1 (0-1)	HA-8 (1-2)
York ID	Exposure Criteria	15E0078-35	15E0078-36	15E0072-09	15E0072-91	15E0072-94	15E0072-95	15E0072-98	15E0072-17	15E0078-70
Sample Date and Time	Industrial/ Commercial	4/30/2015 20:01	4/30/2015 20:02	4/30/2015 9:24	4/30/2015 17:35	4/30/2015 17:40	4/30/2015 17:41	4/30/2015 18:00	4/30/2015 10:10	5/1/2015 13:25
Parameters	Direct Exposure Criteria									
Metals (mg/kg)										
Arsenic	10	10.3	3.23	9.04	8.83	12.2	7.37	5.88	3.52	9.32

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Arsenic Delineation Sample Results

William Street Baseball Field Greenwich, Connecticut

Langan Project No.: 140109002

Sample Location	Residential Direct	HA-8-E1 (0-1)	HA-8-N1 (0-1)	HA-8-S1 (0-1)	HA-8-W1 (0-1)	HA-10 (1-2)	Dup-3 [HA-10 (1-2)]	HA-10-E1 (0-1)	HA-10-E1 (1-2)	HA-10-E2 (0-1)
York ID	Exposure Criteria	15E0078-54	15E0078-46	15E0078-42	15E0078-62	15E0072-76	15E0072-02	15E0072-79	15E0072-80	15E0072-36
Sample Date and Time	Industrial/ Commercial	5/1/2015 13:05	5/1/2015 12:55	5/1/2015 12:50	5/1/2015 13:15	4/30/2015 16:30	4/30/2015 15:00	4/30/2015 16:45	4/30/2015 16:46	4/30/2015 12:10
Parameters	Direct Exposure Criteria									
Metals (mg/kg)										
Arsenic	10	7.88	5.37	2.94	9.29	4.35	3.13	23.20	4.85	18.70

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Arsenic Delineation Sample Results

William Street Baseball Field Greenwich, Connecticut

Langan Project No.: 140109002

Sample Location	Residential Direct	HA-10-E2 (1-2)	HA-10-N1 (0-1)	HA-10-N1 (1-2)	HA-10-N2 (0-1)	HA-10-N2 (1-2)	HA-10-NE1 (0-1)	DUP [HA-10-NE1 (0-1)]	HA-10-NE1 (1-2)
York ID	Exposure Criteria	15E0072-37	15E0072-71	15E0072-72	15F0780-04	15F0780-05	15F0769-99	15F0780-24	15F0780-01
Sample Date and Time	Industrial/ Commercial	4/30/2015 12:11	4/30/2015 16:05	4/30/2015 16:06	6/18/2015 11:56	6/18/2015 11:57	6/18/2015 11:51	6/18/2015 3:00	6/18/2015 11:52
Parameters	Direct Exposure Criteria								
Metals (mg/kg)									
Arsenic	10	4.94	51.00	3.06	41.10	9.07	41.70	28.60	4.32

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Arsenic Delineation Sample Results

William Street Baseball Field Greenwich, Connecticut

Langan Project No.: 140109002

Sample Location	Residential Direct	HA-10-S1 (0-1)	HA-10-S1 (1-2)	HA-10-S2 (0-1)	HA-10-S2 (1-2)	HA-10-W1 (0-1)	HA-10-W1 (1-2)	HA-10-W2 (0-1)	HA-10-W2 (1-2)	HA-10-W2 (2-3)
York ID	Exposure Criteria	15E0072-83	15E0072-84	15E0072-87	15E0072-88	15E0072-75	15F0769-17	15E0072-22	15E0072-23	15F0769-20
Sample Date and Time	Industrial/ Commercial	4/30/2015 17:00	4/30/2015 17:01	4/30/2015 17:05	4/30/2015 17:06	4/30/2015 16:25	6/18/2015 9:21	4/30/2015 10:40	4/30/2015 10:41	6/18/2015 9:26
Parameters	Direct Exposure Criteria									
Metals (mg/kg)										
Arsenic	10	24.60	3.43	33.80	6.02	33.00	4.93	55.90	19.90	9.54

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Arsenic Delineation Sample Results

William Street Baseball Field Greenwich, Connecticut

Langan Project No.: 140109002

Sample Location York ID Sample Date and Time Parameters	Residential Direct Exposure Criteria Industrial/ Commercial Direct Exposure Criteria	HA-10-W3 (0-1) 15F0769-42 6/18/2015 10:01	HA-10-W3 (1-2) 15F0769-43 6/18/2015 10:02	HA-10-W3 (2-3) 15F0769-44 6/18/2015 10:03	HA-10-W4 (0-1) 15F0769-45 6/18/2015 10:06	HA-10-SW1 (0-1) 15F0769-48 6/18/2015 10:11	HA-10-SW2 (0-1) 15F0769-52 6/18/2015 10:16	HA-10-SW3 (0-1) 15F0769-56 6/18/2015 10:21	HA-13 (1-2) 15E0072-46 4/30/2015 13:20
Metals (mg/kg)									
Arsenic	10	15.50	11.40	3.43	7.14	9.09	4.15	6.56	9.33

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Arsenic Delineation Sample Results

William Street Baseball Field Greenwich, Connecticut

Langan Project No.: 140109002

Sample Location	Residential Direct	Dup-1 [HA-13 (1-2)]	HA-13-E1 (0-1)	HA-13-E1 (1-2)	HA-13-E2 (0-1)	HA-13-E2 (1-2)	HA-13-E3 (0-1)	HA-13-E4 (0-1)	HA-13-N1 (0-1)
York ID	Exposure Criteria	15E0072-02	15E0072-55	15E0072-56	15E0072-30	15E0072-31	15F0780-16	15F0780-12	15E0072-38
Sample Date and Time	Industrial/ Commercial	4/30/2015 15:00	4/30/2015 13:54	4/30/2015 13:55	4/30/2015 12:05	4/30/2015 12:06	6/18/2015 12:11	6/18/2015 12:06	4/30/2015 12:50
Parameters	Direct Exposure Criteria								
Metals (mg/kg)									
Arsenic	10	8.12	133	9.81	15.0	3.9	5.01	6.30	56.3

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Arsenic Delineation Sample Results

William Street Baseball Field Greenwich, Connecticut

Langan Project No.: 140109002

Sample Location	Residential Direct	HA-13-N1 (1-2)	HA-13-N2 (0-1)	HA-13-N2 (1-2)	HA-13-N3 (0-1)	HA-13-N4 (0-1)	HA-13-N4 (1-2)	HA-13-N5 (0-1)	HA-13-N5 (1-2)	HA-13-N6 (0-1)
York ID	Exposure Criteria	15E0072-39	15E0072-42	15E0072-43	15F0769-09	15F0769-01	15F0769-02	15F0769-13	15F0769-14	15F0769-05
Sample Date and Time	Industrial/ Commercial	4/30/2015 12:51	4/30/2015 12:54	4/30/2015 12:55	6/18/2015 9:11	6/18/2015 9:01	6/18/2015 9:02	6/18/2015 9:16	6/18/2015 9:17	6/18/2015 9:06
Parameters	Direct Exposure Criteria									
Metals (mg/kg)										
Arsenic	10	6.21	108	6.78	7.16	11.20	5.26	31.80	7.45	17

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Arsenic Delineation Sample Results

William Street Baseball Field Greenwich, Connecticut

Langan Project No.: 140109002

Sample Location	Residential Direct	HA-13-N6 (1-2)	HA-13-S1 (0-1)	HA-13-S1 (1-2)	HA-13-S2 (0-1)	HA-13-S2 (1-2)	HA-13-W1 (0-1)	Dup-2 [HA-13-W1 (0-1)]	HA-13-W1 (1-2)
York ID	Exposure Criteria	15F0769-06	15E0072-51	15E0072-52	15E0072-59	15E0072-60	15E0072-49	15E0072-03	15E0072-50
Sample Date and Time	Industrial/ Commercial	6/18/2015 9:07	4/30/2015 13:50	4/30/2015 13:51	4/30/2015 14:20	4/30/2015 14:21	4/30/2015 13:25	4/30/2015 15:00	4/30/2015 13:26
Parameters	Direct Exposure Criteria								
Metals (mg/kg)									
Arsenic	10	4.81	46.3	5.78	27.3	4.53	122	169	15.3

NOTES:

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ND* = Reporting limit above criteria

NT = Not tested

mg/kg = milligrams per kilograms

* = For those compounds that do not have certain criteria established within the CTDEEP RSRs effective 30 January 1996 and or 27 June 2013, additional polluting substance crtieria 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.

Arsenic Delineation Sample Results

William Street Baseball Field Greenwich, Connecticut

Langan Project No.: 140109002

Sample Location	Residential Direct	HA-13-W1 (2-3)	HA-13-W2 (0-1)	HA-13-W2 (1-2)	HA-13-W2 (2-3)	HA-13-W3 (0-1)	HA-13-W3 (1-2)	HA-13-W4 (0-1)	HA-13-SW1 (0-1)	HA-13-SW1 (1-2)
York ID	Exposure Criteria	15F0769-24	15E0072-32	15E0072-33	15E0072-33	15F0769-26	15F0769-27	15F0769-30	15F0769-34	15F0769-35
Sample Date and Time	Industrial/ Commercial	6/18/2015 9:36	4/30/2015 11:40	4/30/2015 11:41	4/30/2015 11:42	6/18/2015 9:41	6/18/2015 9:42	6/18/2015 9:46	6/18/2015 9:51	6/18/2015 9:52
Parameters	Direct Exposure Criteria									
Metals (mg/kg)										
Arsenic	10	3.54	104	16.8	5.51	13.60	6.78	5.83	11.70	4.89

NOTES:

NE = Not established

ND = Not detected

ND* = Reporting limit above criteria

NT = Not tested

mg/kg = milligrams per kilograms

* = For those compounds that do not have certain criteria established within the CTDEEP RSRs effective 30 January 1996 and or 27 June 2013, additional polluting substance crtieria 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.

Arsenic Delineation Sample Results

William Street Baseball Field Greenwich, Connecticut

Langan Project No.: 140109002

Sample Location	Residential Direct	HA-13-SW2 (0-1)	HA-13-SE1 (0-1)	HA-21 (2-3)	HA-21-N1 (0-1)	HA-21-N1 (1-2)	HA-21-N1 (2-3)	HA-21-N2 (0-1)	HA-21-N2 (1-2)	HA-21-S1 (0-1)
York ID	Exposure Criteria	15F0769-38	15F0780-08	15E0078-02	15E0078-08	15E0078-09	15E0078-10	15E0078-14	15E0078-15	15E0078-04
Sample Date and Time	Industrial/ Commercial	6/18/2015 9:56	6/18/2015 12:01	4/30/2015 18:11	4/30/2015 18:40	4/30/2015 18:41	4/30/2015 18:42	4/30/2015 19:00	4/30/2015 19:01	4/30/2015 18:25
Parameters	Direct Exposure Criteria									
Metals (mg/kg)										
Arsenic	10	5.84	3.44	1.81	84	16.4	3.31	132	3.95	4.45

NOTES:

NE = Not established

ND = Not detected

ND* = Reporting limit above criteria

NT = Not tested

mg/kg = milligrams per kilograms

* = For those compounds that do not have certain criteria established within the CTDEEP RSRs effective 30 January 1996 and or 27 June 2013, additional polluting substance crtieria 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.

Arsenic Delineation Sample Results

William Street Baseball Field Greenwich, Connecticut

Langan Project No.: 140109002

Sample Location	Residential Direct	HA-21-NE1 (0-1)	HA-21-NE1 (1-2)	HA-21-NE2 (0-1)	HA-22 (2-3)	HA-22-N1 (0-1)	HA-22-N1 (1-2)	HA-22-N1 (2-3)	HA-22-S1 (0-1)	HA-22-S1 (1-2)
York ID	Exposure Criteria	15F0769-91	15F0769-92	15F0769-95	15E0072-67	15E0072-63	15E0072-64	15E0072-65	15E0072-69	15E0072-70
Sample Date and Time	Industrial/ Commercial	6/18/2015 11:41	6/18/2015 11:42	6/18/2015 11:46	4/30/2015 15:01	4/30/2015 14:40	4/30/2015 14:41	4/30/2015 14:42	4/30/2015 15:05	4/30/2015 15:06
Parameters	Direct Exposure Criteria									
Metals (mg/kg)										
Arsenic	10	25.50	9.86	2.05	2.77	257	15.6	5.79	500	40.8

NOTES:

NE = Not established

ND = Not detected

ND* = Reporting limit above criteria

NT = Not tested

mg/kg = milligrams per kilograms

* = For those compounds that do not have certain criteria established within the CTDEEP RSRs effective 30 January 1996 and or 27 June 2013, additional polluting substance crtieria 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.

Arsenic Delineation Sample Results

William Street Baseball Field Greenwich, Connecticut

Langan Project No.: 140109002

Sample Location	Residential Direct	HA-22-S1 (2-3)	HA-22-W1 (0-1)	HA-22-W1 (1-2)	HA-22-W2 (0-1)
York ID	Exposure Criteria	15F0769-22	15E0072-27	15E0072-28	15E0072-24
Sample Date and Time	Industrial/ Commercial	6/18/2015 9:31	4/30/2015 11:25	4/30/2015 11:26	4/30/2015 11:20
Parameters	Direct Exposure Criteria				
Metals (mg/kg)					
Arsenic	10	1.19	94.5	4.88	6.85

NOTES:

NE = Not established

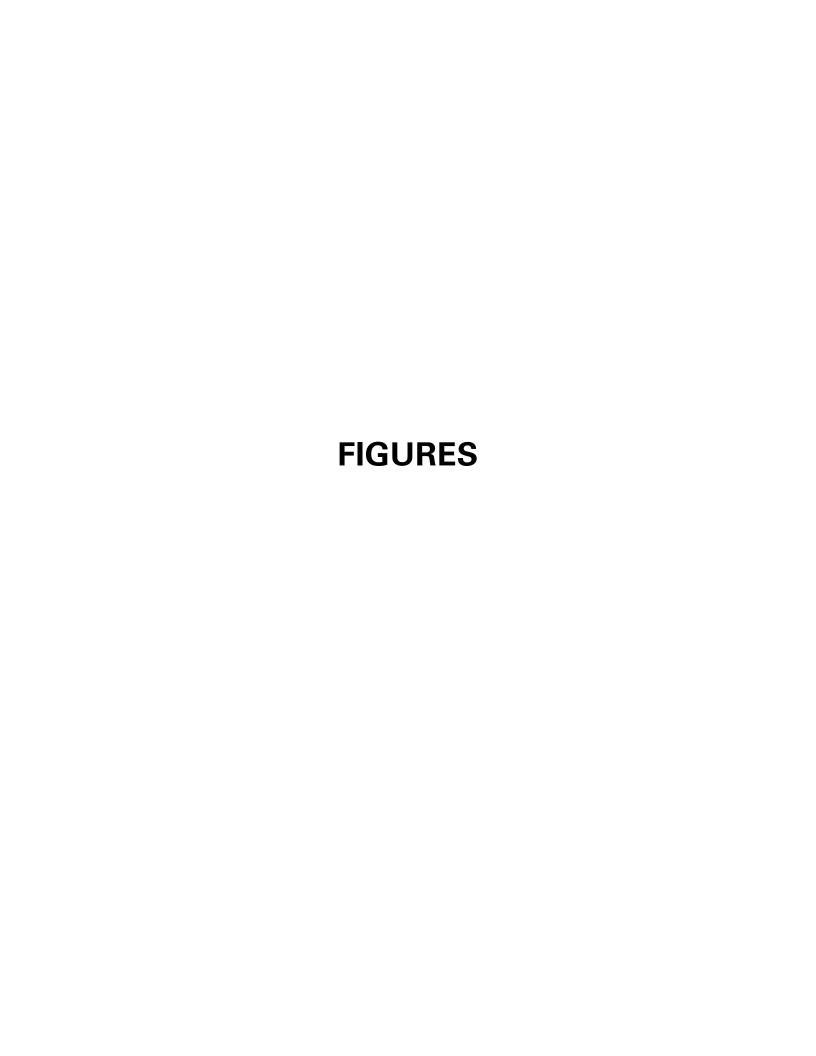
ND = Not detected

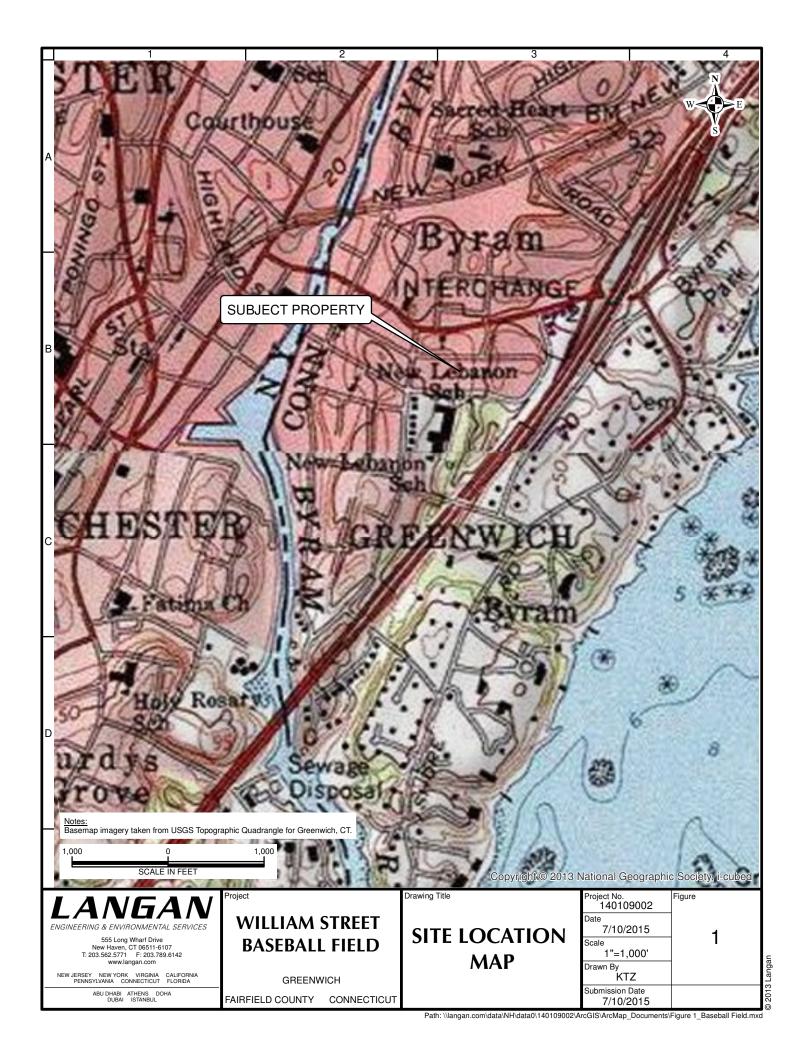
ND* = Reporting limit above criteria

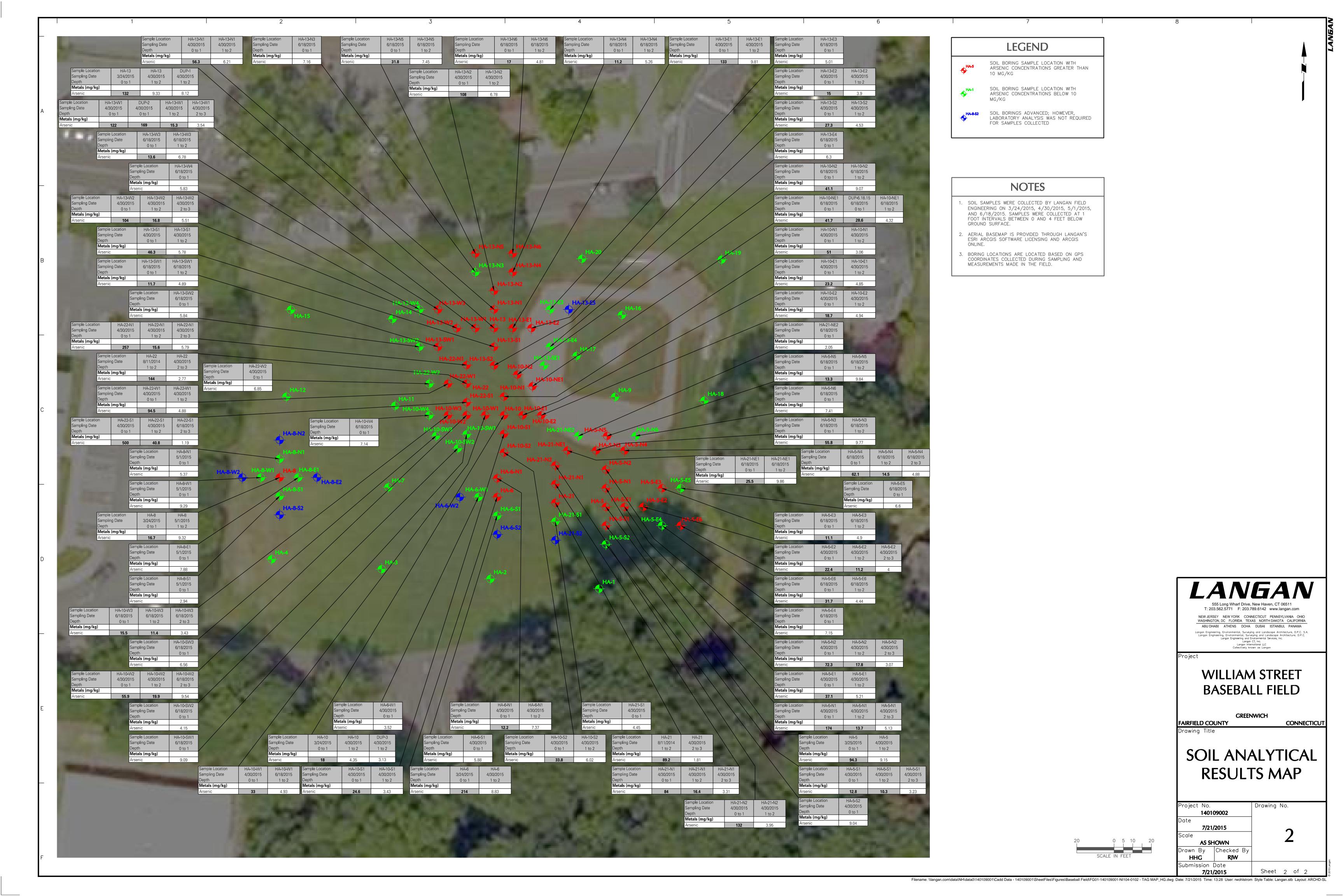
NT = Not tested

mg/kg = milligrams per kilograms

* = For those compounds that do not have certain criteria established within the CTDEEP RSRs effective 30 January 1996 and or 27 June 2013, additional polluting substance crtieria 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.







ATTACHMENT A

Previous Reports

LIMITED PHASE II ENVIRONMENTAL SITE INVESTIGATION REPORT

for

PUBLIC BASEBALL FIELD Greenwich, Connecticut

Prepared For:

AKF Group, LLC 750 East Main Street, Suite 501 Stamford, Connecticut 06902

Prepared By:

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LANGAN

March 2015 Langan Project No. 140109002

TABLE OF CONTENTS

1.0	INTR	ODUCTION	2						
	1.1	Background and Purpose	2						
	1.2	Site Description and History							
	1.3	Scope of Work							
2.0	REGU	JLATORY BACKGROUND	3						
	2.1	Soil Criteria	3						
3.0	GEOL	OGY, HYDROGEOLOGY, AND GROUNDWATER QUALITY							
	3.1	Geology							
	3.2	Hydrogeology							
4.0		ED PHASE II ESI METHODOLOGY AND INVESTIGATION ACTIVITIES							
	4.1	Geophysical Survey							
	4.2	Subsurface Soil Investigation							
	4.3	Soil Sampling Results							
	0014	4.3.1 Quality Assurance/Quality Control							
5.0	5.1	CEPTUAL SITE MODEL Impact Sources and Mechanisms							
	5.1 5.2	Migration Pathways							
	J.Z	5.2.1 Infiltration into the Vadose Zone (Soil)							
		5.2.2 Migration in the Saturated Zone/Bedrock (Groundwater)							
	5.3	Exposure Pathways	9						
	5.4	Preliminary Ecological Screening	9						
6.0	CONC	CLUSIONS AND RECOMMENDATIONS	10						
7.0	LIMIT	ATIONS	10						
		TABLES							
Table	1	Summary of Soil Analytical Results							
		FIGURES							
Figur	e 1	Site Location Plan							
Figur	e 2	Site Layout Map							
Figur	e 3	Soil Analytical Results Map							
		APPENDICES							
Appe	ndix A	Geophysical Survey Report							
Appe	ndix B	Soil Boring Logs							
Appe	ndix C	Laboratory Reports							
Appe	ndix D	Wetland Delineation Report							

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 hydraulicallyconnected 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.

<u>Pesticides</u>

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

Langan Project No: 140109002

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.

<u>Summary of Ecological Assessment</u>

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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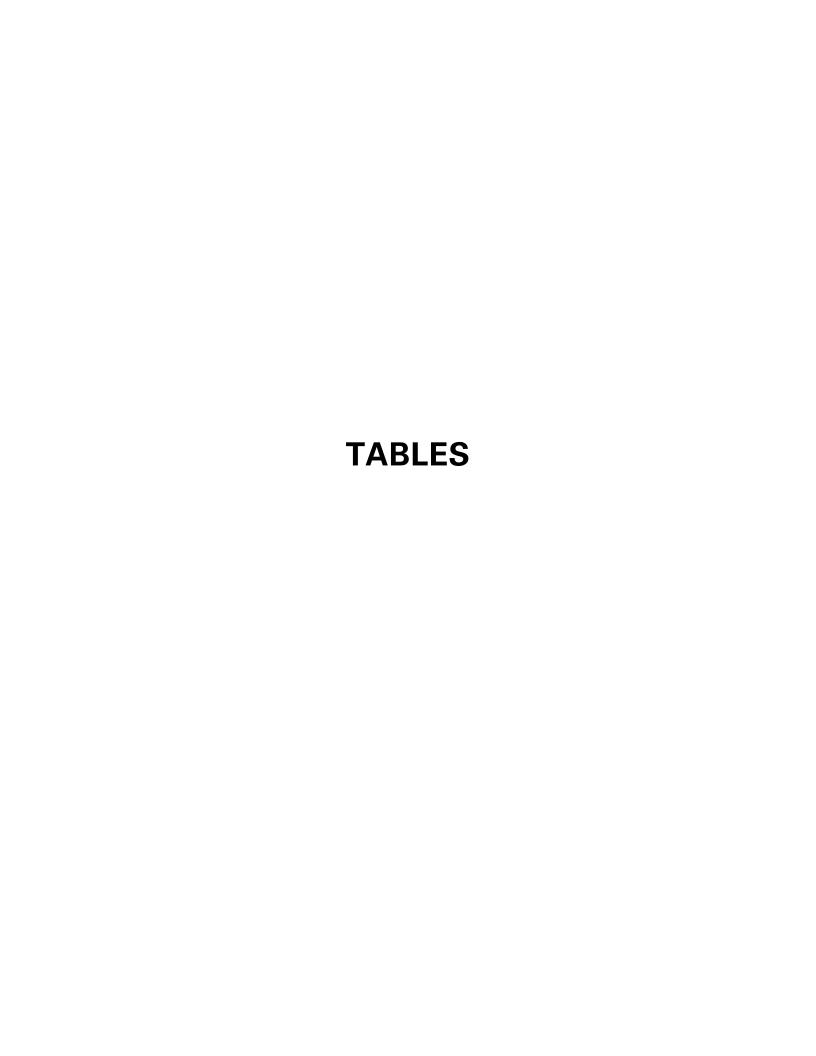


Table 1 Summary of Soil Analytical Results Public Baseball Field Greenwich, Connecticut 140109002

Sample ID Sampling Date Parameters Depth (ft)	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
ETDU (//)	=00	0.500	0.500			
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

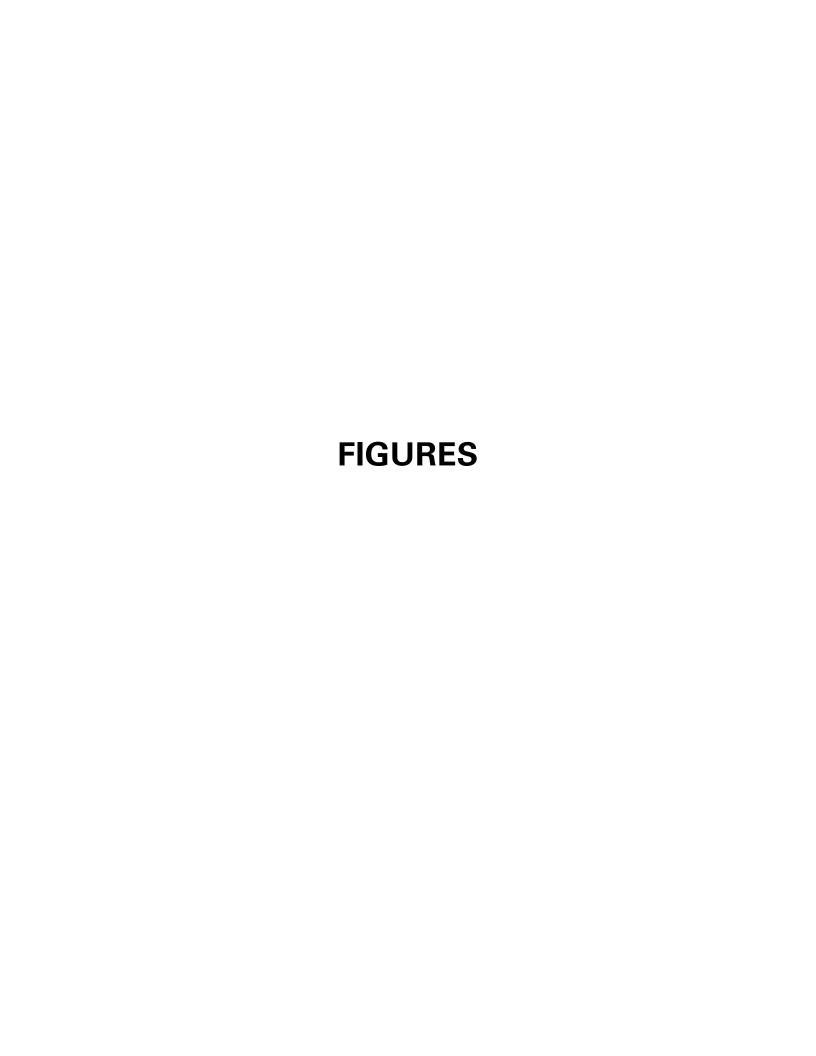
ND* = Reporting limit above criteria

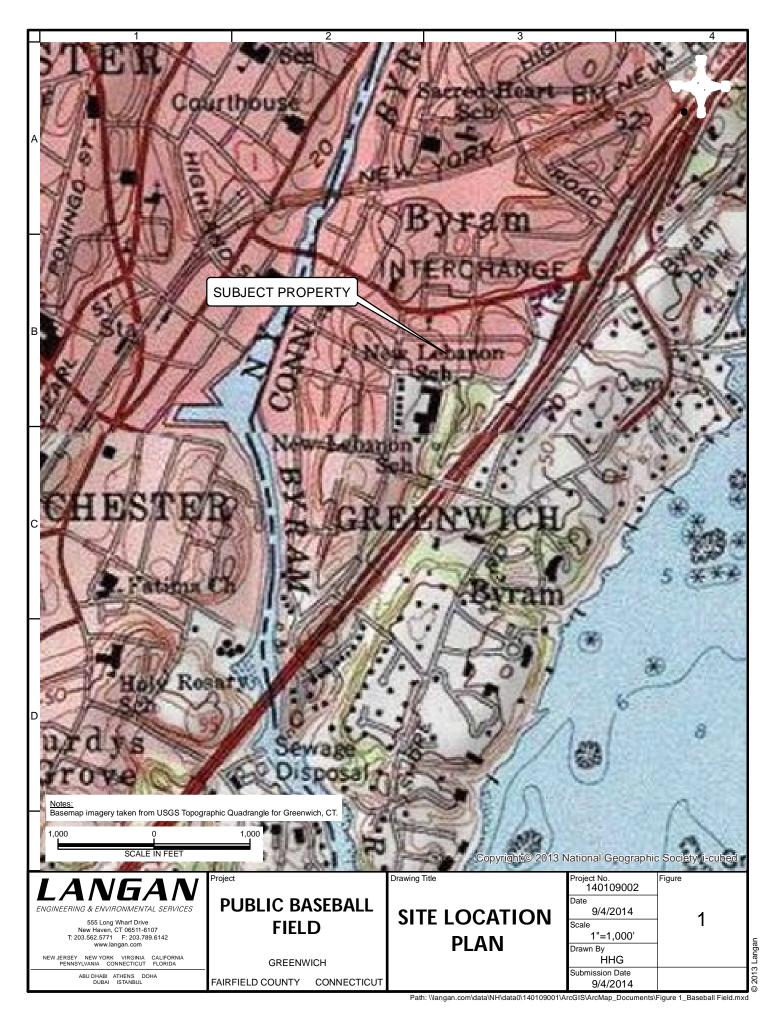
D = result is from an analysis that required a dilution

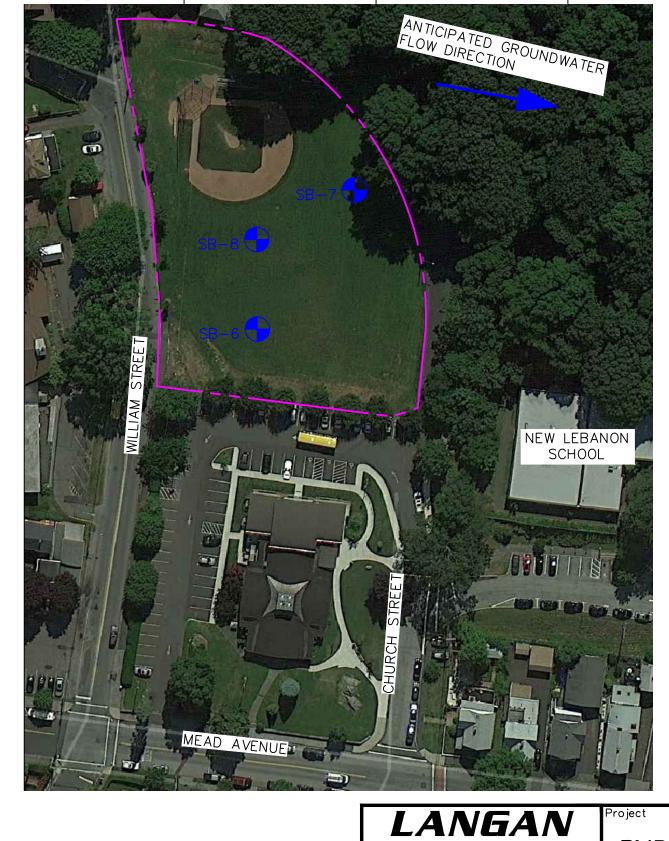
- \sim = this indicates that no regulatory limit has been established for this analyte
- ** = For those compounds that do not have certain criteria established within the CTDEEP RSRs effective January 30, 1996, additional polluting substance crtieria must be requested for approval by the CTDEEP. The 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







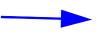
GENERAL NOTES

1. AERIAL IMAGE TAKEN FROM GOOGLE EARTH ON FEBRUARY 23, 2015.

LEGEND



APPROXIMATE LOCATION OF PROPERTY LINE



INFERRED GROUNDWATER FLOW DIRECTION



LANGAN SOIL BORING

555 Long Wharf Drive New Haven, CT 06511

T: 203.562.5771 F: 203.789.6142 www.langan.com

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan Engineering and Environmental Services, Inc. Langan Cf. Inc. Langan International LLC

Collectively known as Langan

PUBLIC BASEBALL FIELD

GREENWICH
FAIRFIELD COUNTY CONNECTICUT

Drawing Title

SITE LAYOUT MAP

Project No.

140109002

Date

MARCH 2015

Scale

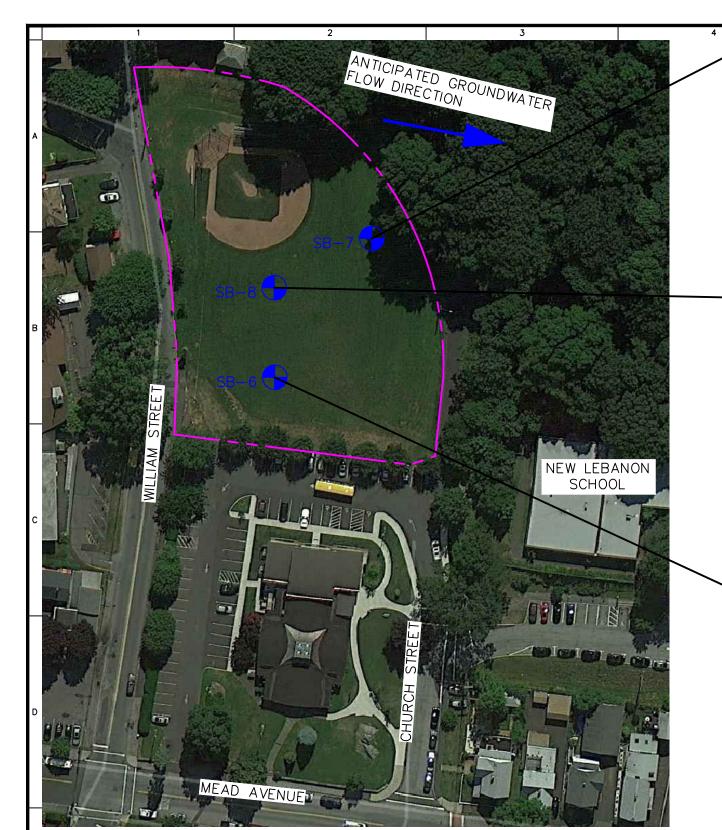
1"=80'

Drawn By Checked By
HHG RJW

Submission Date
MARCH 2015

Sheet 2 of 3

SCALE IN FEET



Sample ID Sampling Date Depth (ft)	SB-7 8/11/2014 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

SB-4

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
/OCs (mg/kg)			
cetone	500	1,000	140
esticides (mg/kg)			
,4'-DDE	1.2**	16.8**	0.01**
,4'-DDT	1.2**	16.8**	0.01**
TPH (mg/kg)	500	2,500	2,500
/letals (mg/kg)			
antimony	27	8,200	~
rsenic	10	10	~
arium	4,700	140,000	~
eryllium	2	2	~
Chromium	4,000	51,100	~
Copper	2,500	76,000	~
ead	500	1,000	~
lickel	1,400	7,500	~
elenium	340	10,000	~
anadium/	470	14,000	~
inc	20,000	610,000	~
Mercury	20	610	~

LANGAN

555 Long Wharf Drive New Haven, CT 06511

T: 203.562.5771 F: 203.789.6142 www.langan.com

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan Engineering and Environmental Services, Inc. Langan CT, Inc. Langan International LLC PUBLIC BASEBALL FIELD

GREENWICH
FAIRFIELD COUNTY CONNECTICUT

SOIL ANALYTICAL RESULTS MAP

Drawing Title

Project No.

140109002

Date

MARCH 2015

Scale

1"=80'

Drawn By Checked By HHG RJW

Submission Date
MARCH 2015

Sheet 3 of 3

T: 203.562.577

30 0 40 80 Langan Engine
Lanc
Langan Engine

SCALE IN FEET

Collectively known as Langan

APPENDIX A GEOPHYSICAL SURVEY REPORT

GEOPHYSICAL ENGINEERING SURVEY REPORT

NEW LEBABNON SCHOOL 25 MEAD AVENUE GREENWICH, CONNECTICUT 06830

NOVA PROJECT NUMBER

14-0338

DATED

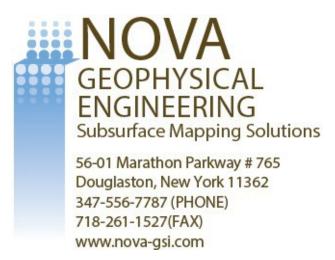
AUGUST 22, 2014

PREPARED FOR:

LANGAN

Long Warf Maritime Center – 555 Long Warf Drive New Haven, CT 06511

PREPARED BY:



NOVAGEOPHYSICAL SERVICES

SUBSURFACEMAPPINGSOLUTIONS

56-01 Marathon Parkway, #765, Douglaston, New York 11362 Ph. 347-556-7787 Fax. 718-261-1527 www.nova-gsi.com

August 22, 2014

Ryan J Wohlstrom, P.E. LEED AP Project Engineer *LANGAN* Long Warf Maritime Center – 555 Long Warf Drive New Haven, CT 06511

Direct: 203.784.3069 Mobile: 203.464.2731

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.



GEOPHYSICAL METHODS

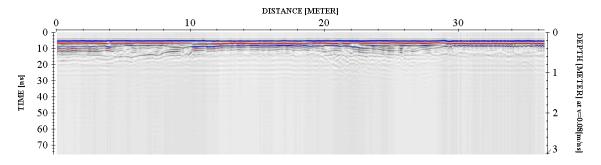
The project site was first screened using the Geonics(tm) electromagnetic detector by carrying the instrument over the project area at the site in 4' x 4' traverses. Finally, GPR profiles were collected over each anomaly and inspected for reflections, which could be indicative of major anomalies and 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.

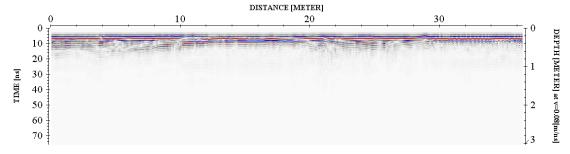
DATA PROCESSING

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

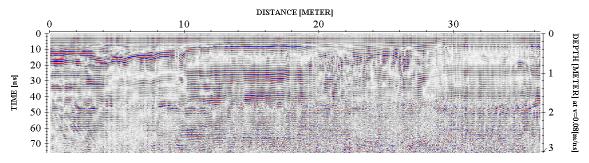


Step 2. Remove instrument noise (dewow)

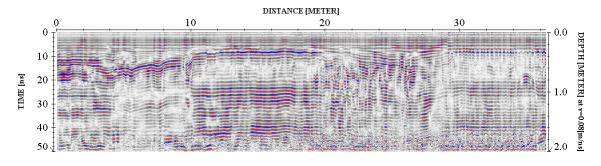




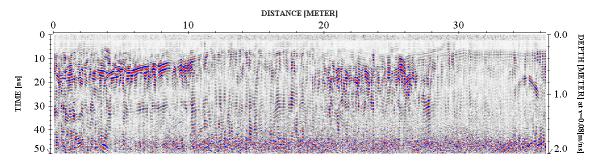
Step 3. Correct for attenuation losses (energy decay function)



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.



GEOPHYSICALENGINEERING SURVEY/GESREPORT

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 surv ey 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,

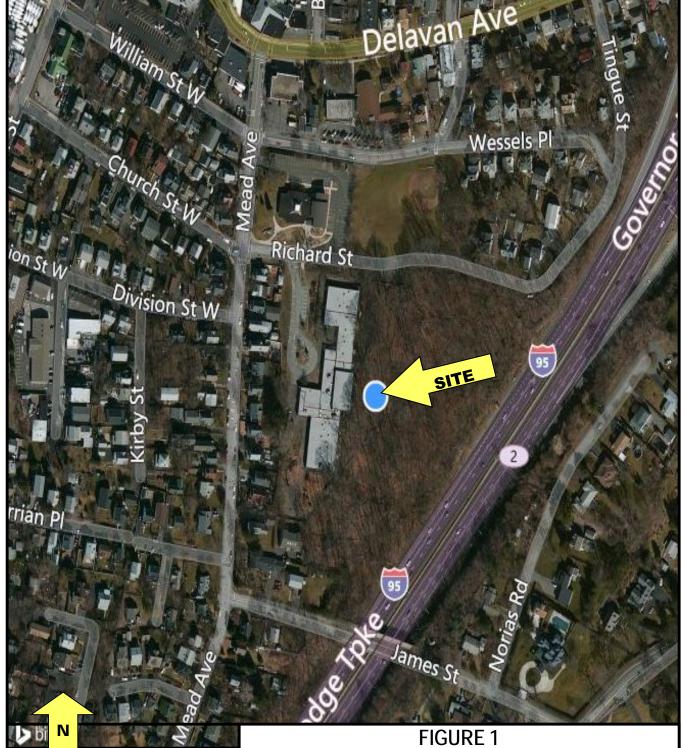
NOVA Geophysical Services

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

Attachments:

Figure 1 Site Location Map Geophysical Survey Plan Geophysical Images





NOVA

Geophysical Services

Subsurface Mapping Solutions

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

www.nova-gsi.com

FIGURE 1
SITE LOCATION MAP

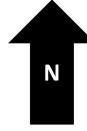
SITE: New Lebanon School

25 Mead Avenue

Greenwich, Connecticut 06830

SCALE: See Map





NOVA Geophysical Services

Subsurface Mapping Solutions

56-01 Marathon Parkway, # 765 Douglaston, New York11362 Phone (347) 556-7787 * Email info@nova-gsi.com www.nova-gsi.com

GEOPHYSICAL SURVEY

SITE: New Lebanon School

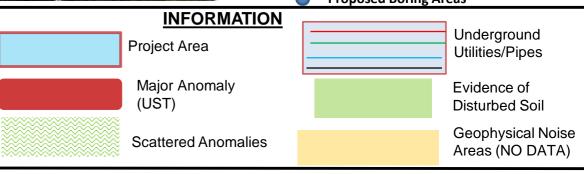
25 Mead Avenue, Greenwich, CT

CLIENT: Langan Engineering & Environmental Services

DATE: August 11th 2014

Scale See Map

Note: All anomalies were marked n the Field Proposed Boring Areas



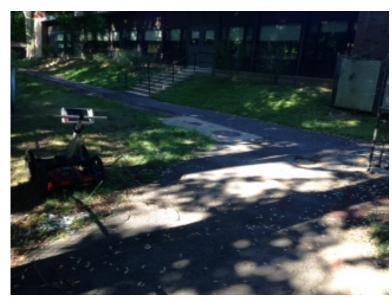
GEOPHYSICAL IMAGES

Lebanon School

25 Mead Avenue, Greenwich, Connecticut August 11^{th,} 2014









GEOPHYSICAL IMAGES

Lebanon School25 Mead Avenue, Greenwich, Connecticut
August 11^{th,} 2014









GEOPHYSICAL IMAGES

Lebanon School

25 Mead Avenue, Greenwich, Connecticut August 11^{th,} 2014





NOVA GEOPHYSICAL SERVICES www.nova-gsi.com

APPENDIX B SOIL BORING LOGS



LOG OF BORING SB-6 SHEET 1 OF ____ PROJECT NO. 140109001 PROJECT New Lebanon School Mead Avenue, Greenwich, CT **ELEVATION AND DATUM** DATE STARTED 8. //. /4 DATE FINISHED 8.11.14 Environmental COMPLETION DEPTH ROCK DEPTH Geoprobe NO. SAMPLES DIST. UNDIST CORE SIZE AND TYPE OF BIT WATER LEVEL FIRST COMPL. 24 HR. CASING WEIGHT DROP loyd CASING HAMMER SAMPLER 2" OD Macro core INSPECTOR SAMPLER HAMMER WEIGHT SAMPLES PID DEPTH REMARKS RECOV. FT. PENETR. RESIST BL/6 In/. NO.LOC. (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.) SAMPLE DESCRIPTION SCALE (ppm) no staining, no odor 1' Topsoil Brown to orange, M-FSAND, sm-clay, sm-silt, tr-f-gravel 1200 sample 2-3' (dry) no staining, no odor Brown to orange CLAY, sm-f-sand, sm-silt, tr-f-gravel 30/ Refusal@71 (slightly moist) 12 13



LOG OF BORING SB-7 SHEET 1 OF ___ PROJECT NO. 140109001 New Lebanon School PROJECT Mead Avenue, Greenwich, CT ELEVATION AND DATUM DATE STARTED 8. //. /4 8.11.14 Environmental COMPLETION DEPTH ROCK DEPTH 0 NO. SAMPLES DIST. UNDIST SIZE AND TYPE OF BIT FIRST WATER LEVEL COMPL 24 HR. CASING WEIGHT DROP loya CASING HAMMER SAMPLER 2" OD Macro Core INSPECTOR SAMPLER HAMMER **SAMPLES** PID DEPTH REMARKS RECOV. FT. PENETR. RESIST BL/6 In/. NO.LOC. (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.) SAMPLE DESCRIPTION SCALE Lppm) 1' Topsoil Brown to orange, M-FSAMD, sm-clay, sm-silt, tr-f-gravel 1220 sample 1-2' (dry) no staining, no ador 0.0 Brown to orange CLAY, sm-f-sand, tr-silt, tr-f-gravel Refusal @ 6'



LOG OF BORING SB-8 SHEET 1 OF ___ PROJECT NO. 140109001 New Lebanon School PROJECT Mead Avenue, Greenwich, CT **ELEVATION AND DATUM** DATE STARTED 8. //. /4 8.11.14 Environmental COMPLETION DEPTH ROCK DEPTH NO. SAMPLES DIST. UNDIST CORE SIZE AND TYPE OF BIT FIRST WATER LEVEL COMPL. 24 HR. CASING DROP CASING HAMMER WEIGHT loya SAMPLER 2" OD Macro Core INSPECTOR SAMPLER HAMMER WEIGHT DROP SAMPLES PID REMARKS DEPTH RECOV. FT. PENETR. RESIST BL/6 In/. NO.LOC. (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.) SAMPLE DESCRIPTION SCALE (ppm) no staining 1' Topsoil Brown to orange, M-FSAND sm-clay, sm-silt, tr-f-gravel 1245 sample 1-2' N Z FR 0.0 Bown CLAY, sm-f-sand tr-silt, tr-f-gravel no staining, no odor Refusal @ 6' 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

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 1 of 55

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.

York Sample ID	Client Sample ID	<u>Matrix</u>	Date Collected	Date Received
14H0523-06	SB-6 2-3'	Soil	08/11/2014	08/11/2014
14Н0523-07	SB-7 1-2'	Soil	08/11/2014	08/11/2014
14Н0523-08	SB-8 1-2'	Soil	08/11/2014	08/11/2014
14Н0523-11	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





<u>Client Sample ID:</u> SB-6 2-3' <u>York Sample ID:</u> 14H0523-06

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0523Public Baseball FieldSoilAugust 11, 2014 12:00 pm08/11/2014

Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

Log-in Notes:	Sample Notes:

CAS No.	Parameter	Result	Flag	Units	LOD/MD	Reported to L 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
	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

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>



Client Sample ID: SB-6 2-3' York Sample ID: 14H0523-06

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0523Public Baseball FieldSoilAugust 11, 2014 12:00 pm08/11/2014

Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

Log-in Notes:	Sample Notes:
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CAS No	o. Parameter	Result	Flag	Units	LOD/MDL	Reported t	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

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>



Client Sample ID: SB-6 2-3' **York Sample ID:** 14H0523-06

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 14H0523 Public Baseball Field Soil August 11, 2014 12:00 pm 08/11/2014

Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

		Reported to							Date/Time		
CAS N	o. Parameter	Result	Flag	Units	LOD/MDL LOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst	
	Surrogate Recoveries	Result		Acce	eptance Range						
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

Log-in Notes:

Sample Notes:

CAS No	o. Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
33-32-9	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
52-53-3	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
36-74-8	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

FAX (203) 35<u>7-0166</u> 120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371



Client Sample ID: SB-6 2-3' York Sample ID: 14H0523-06

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0523Public Baseball FieldSoilAugust 11, 2014 12:00 pm08/11/2014

Semi-Volatiles, CT RCP BNA List

Sample Prepared by Method: EPA 3545A

Log-in Notes:	Sample Notes:

CAS No	o. Parameter	Result	Flag	Units	LOD/MDL	Reported to	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	SR
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	SR
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	SR
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	SR
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	SR
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	SR
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	SR
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	SR
206-44-0	Fluoranthene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
86-73-7	Fluorene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
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	SR
78-59-1	Isophorone	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
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	SR
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	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
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	SR
91-20-3	Naphthalene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
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	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
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	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
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	SR
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	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	179	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
85-01-8	Phenanthrene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
108-95-2	Phenol	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
129-00-0	Pyrene	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
110-86-1	Pyridine	ND		ug/kg dry	93.2	358	1	EPA 8270D	08/13/2014 14:35	08/14/2014 20:42	SR
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	SR

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 7 of 55



Client Sample ID: SB-6 2-3' York Sample ID: 14H0523-06

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0523Public Baseball FieldSoilAugust 11, 2014 12:00 pm08/11/2014

Semi-Volatiles, CT RCP BNA List

Sample Prepared by Method: EPA 3545A

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	$\alpha\sigma_{-1}$	Notes:	
•	102-III	Tiutes.	

Sample Notes:

CAS No	CAS No. Parameter		Flag	Units	LOD/MDL	Reported to	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	Result		Acce	otance Rang	e					
367-12-4	Surrogate: 2-Fluorophenol	34.2 %			10-105						
4165-62-2	Surrogate: Phenol-d5	31.7 %			10-118						
4165-60-0	Surrogate: Nitrobenzene-d5	29.5 %			10-140						
321-60-8	Surrogate: 2-Fluorobiphenyl	27.8 %			10-126						
118-79-6	Surrogate: 2,4,6-Tribromophenol	25.0 %			10-150						
1718-51-0	Surrogate: Terphenyl-d14	63.9 %			10-137						

Pesticides, CT RCP Target List

ample Prepared by Method: EPA 3545 A

Log-in Notes:

Sample Notes:

CAS N	o. Parameter	Result	Flag	Units	LOD/MDL	Reported to	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		Accep	otance Rang	e					

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>



<u>Client Sample ID:</u> SB-6 2-3' <u>York Sample ID:</u> 14H0523-06

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0523Public Baseball FieldSoilAugust 11, 2014 12:00 pm08/11/2014

Pesticides, CT RCP Target List

Sample Prepared by Method: EPA 3545_A

Log-in Notes: Sample Notes:

						R	Reported to	0		Date/Time	Date/Time	
CAS	No.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
2051-24-3	Surrogate: De	ecachlorobiphenyl	55.4 %	·		30-140				·		

877-09-8 Surrogate: Tetrachloro-m-xylene 51.5 % 30-140

Polychlorinated Biphenyls(PCB RCP)

<u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: EPA 3545_A

CAS N	o. Parameter	Result	Flag	Units	LOD/MDL	Reported to	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		Accep	tance Rang	e					
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 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

Sumpre i repui	ica of memoa: ErrisocoBrotomi										
CAS N	lo. Parameter	Result	Flag	Units	LOD/MDL	Reported t	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		Acce	ptance Rang	e					
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (I	60.6 %			30-150						

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 9 of 55



<u>Client Sample ID:</u> SB-6 2-3' <u>York Sample ID:</u> 14H0523-06

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0523Public Baseball FieldSoilAugust 11, 2014 12:00 pm08/11/2014

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

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

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepa	ared by Method: EPA	3050B										
CAS N	No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to	O 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

Mercury by 7473 <u>Log-in Notes:</u> <u>Sample Notes:</u>

ND

29.3

52.2

Sample Prepared by Method: EPA 7473 soil

Thallium

Zinc

Vanadium

7440-28-0

7440-62-2

7440-66-6

							Reported to)		Date/Time	Date/Time	
CAS N	No.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	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

1.43

1.43

mg/kg dry

mg/kg dry

mg/kg dry

1.43

1.43

EPA 6010C

EPA 6010C

EPA 6010C

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

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

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 10 of 55

08/15/2014 12:14

08/15/2014 12:14

08/15/2014 12:14

MW

MW

MW

08/15/2014 08:06

08/15/2014 08:06

08/15/2014 08:06



Client Sample ID: SB-7 1-2' York Sample ID: 14H0523-07

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0523Public Baseball FieldSoilAugust 11, 2014 12:20 pm08/11/2014

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No	o. Parameter	Result	Flag	Units	LOD/MDL	Reported to	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

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>



Client Sample ID: SB-7 1-2' York Sample ID: 14H0523-07

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0523Public Baseball FieldSoilAugust 11, 2014 12:20 pm08/11/2014

Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

J	Log-in Notes:	<u>:</u>	sampl	e ſ	No 1	tes:

CAS No	o. Parameter	Result	Flag	Units	LOD/MDI	Reported to	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	56-23-5 Carbon tetrachloride			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

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 12 of 55



Client Sample ID: SB-7 1-2' York Sample ID:

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0523Public Baseball FieldSoilAugust 11, 2014 12:20 pm08/11/2014

Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

Log-in Notes:

Sample Notes:

14H0523-07

						Date/Time	Date/Time				
CAS N	o. Parameter	Result	Flag	Units	LOD/MDL LO	Q	Dilution	Reference Method	Prepared	Analyzed	Analyst
	Surrogate Recoveries	Result		Acce	eptance Range						
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

Log-in Notes:

Sample Notes:

CAS No	o. Parameter	Result	Flag	Units	LOD/MDL	Reported to	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



Client Sample ID: SB-7 1-2' York Sample ID: 14H0523-07

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0523Public Baseball FieldSoilAugust 11, 2014 12:20 pm08/11/2014

Semi-Volatiles, CT RCP BNA List

Sample Prepared by Method: EPA 3545A

CAS No	o. Parameter	Result	Flag	Units	LOD/MDL	Reported to	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

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 14 of 55



Client Sample ID: SB-7 1-2' York Sample ID: 14H0523-07

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0523Public Baseball FieldSoilAugust 11, 2014 12:20 pm08/11/2014

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	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	Result		Acce	ptance Rang	e					
367-12-4	Surrogate: 2-Fluorophenol	50.5 %			10-105						
4165-62-2	Surrogate: Phenol-d5	42.4 %			10-118						
4165-60-0	Surrogate: Nitrobenzene-d5	52.3 %			10-140						
321-60-8	Surrogate: 2-Fluorobiphenyl	61.8 %			10-126						
118-79-6	Surrogate: 2,4,6-Tribromophenol	59.7 %			10-150						
1718-51-0	Surrogate: Terphenyl-d14	80.0 %			10-137						

Pesticides, CT RCP Target List

ample Prepared by Method: EPA 3545 A

Log-in Notes:

Sample Notes:

CAS N	o. Parameter	Result	Flag	Units	LOD/MDL	Reported to	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		Accep	otance Rang	e					



Client Sample ID: SB-7 1-2' **York Sample ID:** 14H0523-07

Client Project ID Matrix Collection Date/Time Date Received York Project (SDG) No. Public Baseball Field 14H0523 Soil August 11, 2014 12:20 pm 08/11/2014

LOD/MDL

Pesticides, CT RCP Target List

Sample Prepared by Method: EPA 3545_A

CAS No.

2051-24-3

Log-in Notes:

Reported to LOQ

Dilution

Sample Notes:

Reference Method

Date/Time Date/Time Prepared Analyzed Analyst

92.4 % 30-140

Units

Flag

Surrogate: Decachlorobiphenyl 877-09-8 Surrogate: Tetrachloro-m-xylene 79.6 % 30-140

Result

Parameter

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545_A

CAS No	o. 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		Accep	otance Rang	e					
877-09-8	Surrogate: Tetrachloro-m-xylene	76.0 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	48.5 %			30-140						

Herbicides, CT RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS N	No. Parameter	Result	Flag	Units	LOD/MDL	Reported to	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		Acce	otance Rang	e					
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (I	D 86.0 %			30-150						



Client Sample ID: SB-7 1-2' York Sample ID: 14H0523-07

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0523Public Baseball FieldSoilAugust 11, 2014 12:20 pm08/11/2014

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CACN	Downwater	D14	171	TI:4-		Reported t		Defense Method	Date/Time	Date/Time	A I4
CAS No	o. Parameter	Result	Flag	Units	LOD/MDL	LOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
СТ ЕТРН	ETPH (Extractable Total Petroleum Hydrocarbons)			mg/kg dry	2.30	10.8	1	CT DEP ETPH	08/18/2014 08:30	08/19/2014 09:40	JW
	Surrogate Recoveries	Result		Accep	otance Rang	e					
3386-33-2	Surrogate: 1-Chlorooctadecane	70.3 %			50-150						

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS N	No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to	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:

								Reported to)		Date/Time	Date/Time	
CAS No.		0.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
74	39-97-6	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 <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

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

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 17 of 55



Client Sample ID: SB-8 1-2' York Sample ID: 14H0523-08

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0523Public Baseball FieldSoilAugust 11, 2014 12:45 pm08/11/2014

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	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

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 18 of 55



Client Sample ID: SB-8 1-2' York Sample ID: 14H0523-08

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0523Public Baseball FieldSoilAugust 11, 2014 12:45 pm08/11/2014

Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

Log-in Notes:	Sample Notes:
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CAS No	o. Parameter	Result	Flag	Units	LOD/MDL	Reported to	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



Client Sample ID: SB-8 1-2'

York Sample ID:

14H0523-08

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

Flag

Units

Result

Result

108 %

123 %

110 %

Matrix Soil <u>Collection Date/Time</u> August 11, 2014 12:45 pm <u>Date Received</u> 08/11/2014

Volatile Organics, CT RCP List

Parameter

Surrogate Recoveries

Surrogate: 1,2-Dichloroethane-d4

Surrogate: p-Bromofluorobenzene

Sample Prepared by Method: EPA 5035A

CAS No.

17060-07-0

460-00-4

2037-26-5

Log-in Notes:

Reported to LOD/MDL LOQ

Acceptance Range

67-130

75-127

90-112

Sample Notes:

Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Semi-Volatiles, CT RCP BNA List

Surrogate: Toluene-d8

Sample Prepared by Method: EPA 3545A

<u>Log-in Notes:</u> <u>Sample Notes:</u>

Dilution

CAS No	o. Parameter	Result	Flag	Units	LOD/MDL	Reported to	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
33-32-9	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
52-53-3	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
35-68-7	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
34-74-2	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
36-74-8	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

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 20 of 55



Client Sample ID: SB-8 1-2' York Sample ID: 14H0523-08

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0523Public Baseball FieldSoilAugust 11, 2014 12:45 pm08/11/2014

Semi-Volatiles, CT RCP BNA List

Sample Prepared by Method: EPA 3545A

Log-in Notes: Sample Notes:

CAS No	o. Parameter	Result	Flag	Units	LOD/MDL	Reported to	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



SB-8 1-2' **Client Sample ID:**

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	o. Parameter	Result	Flag	Units	LOD/MDL	Reported to	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	Result		Acce	ptance Rang	e					
367-12-4	Surrogate: 2-Fluorophenol	39.8 %			10-105						
4165-62-2	Surrogate: Phenol-d5	27.6 %			10-118						
4165-60-0	Surrogate: Nitrobenzene-d5	42.4 %			10-140						
321-60-8	Surrogate: 2-Fluorobiphenyl	24.4 %			10-126						
118-79-6	Surrogate: 2,4,6-Tribromophenol	23.3 %			10-150						
1718-51-0	Surrogate: Terphenyl-d14	61.2 %			10-137						

Pesticides, CT RCP Target List

Log-in Notes:

Sample Notes:

CAS N	o. Parameter	Result	Flag	Units	LOD/MDL	Reported t	o 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		Accep	otance Rang	ge					

STRATFORD, CT 06615 FAX (203) 35<u>7-0166</u> 120 RESEARCH DRIVE (203) 325-1371

Page 22 of 55



<u>Client Sample ID:</u> SB-8 1-2' <u>York Sample ID:</u> 14H0523-08

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0523Public Baseball FieldSoilAugust 11, 2014 12:45 pm08/11/2014

Pesticides, CT RCP Target List

Sample Prepared by Method: EPA 3545_A

Log-in Notes: Sample Notes:

							Reported t	0		Date/Time	Date/Time	
CAS	No.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
2051-24-3	Surrogate: Decac	hlorobiphenyl	106 %			30-140						

877-09-8 Surrogate: Tetrachloro-m-xylene 89.0 % 30-140

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3545_A

CAS N	o. Parameter	Result	Flag	Units	LOD/MDL	Reported to	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		Accep	otance Rang	e					
877-09-8	Surrogate: Tetrachloro-m-xylene	83.0 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	54.5 %			30-140						

Herbicides, CT RCP Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAGN		D 1/	TNI.	TT *4		Reported to		D.C. M.I.I.	Date/Time	Date/Time	
CAS N	o. Parameter	Result	Flag	Units	LOD/MDL	LOQ	Dilution	Reference Method	Prepared	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		Acce	otance Rang	e					
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (D 89.6 %			30-150						



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 <u>Collection Date/Time</u> August 11, 2014 12:45 pm <u>Date Received</u> 08/11/2014

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No	o. Parameter	Result	Flag	Units	LOD/MDL	Reported t	o Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
СТ ЕТРН	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	Result		Accep	ptance Rang	e					
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 N	No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to	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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

								Reported to)		Date/Time	Date/Time	
_	CAS No	0.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

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

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 24 of 55



Client Sample ID: York Sample ID: 14H0523-11

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0523Public Baseball FieldWaterAugust 11, 2014 12:00 am08/11/2014

Volatile Organics, CT RCP List

<u>Log-in Notes:</u> VOA-Air <u>Sample Notes:</u>

Sample Prepared by Method: EPA 5030B

CAS No.	. Parameter	Result	Flag	Units	LOD/MDL	Reported to	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	4.0	В	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

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 25 of 55



Client Sample ID: York Sample ID: 14H0523-11

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received14H0523Public Baseball FieldWaterAugust 11, 2014 12:00 am08/11/2014

Log-in Notes:

VOA-Air

Sample Notes:

Volatile Organics, CT RCP List

95-47-6

179601-23-1

o-Xylene

p- & m- Xylenes

		ъ		***		Reported to	0	D.6. 35.1	Date/Time	Date/Time	
CAS No	o. Parameter	Result	Flag	Units	LOD/MDL	LOQ	Dilution	Reference Method	Prepared	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
00-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
37-68-3	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
01-20-3	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
00-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	08/15/2014 09:36	08/15/2014 22:02	SS
530-20-6	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
9-34-5	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
27-18-4	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
37-61-6	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
6-18-4	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
6-13-1	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
	·			-							

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

0.20

0.50

0.50

1.0

ug/L

ug/L

ND

ND

EPA 8260C

EPA 8260C

Page 26 of 55

08/15/2014 22:02

08/15/2014 22:02

SS

SS

08/15/2014 09:36

08/15/2014 09:36



Client Sample ID: TB-1 **York Sample ID:** 14H0523-11

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

Volatile Organics, CT RCP List

VOA-Air **Log-in Notes: Sample Notes:**

Sample Prepar	red by Method: EPA 5030B									
CAS N	o. Parameter	Result	Flag	Units	Reported to LOD/MDL LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
'	Surrogate Recoveries	Result		Acc	eptance Range					
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %			81-123					
2037-26-5	Surrogate: Toluene-d8	100 %			88-114					
460-00-4	Surrogate: p-Bromofluorobenzene	97.2 %			70-128					

FAX (203) 35<u>7-0166</u> 120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371

Page 27 of 55



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		
14Н0523-07	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		
14Н0523-06	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		
14Н0523-07	SB-7 1-2'	08/18/14		
14H0523-08	SB-8 1-2'	08/18/14		
BH40908-BLK1	Blank	08/18/14		
BIT 10700 BEILI				
BH40908-BS1 BH40908-BSD1	LCS	08/18/14 08/18/14		



York Analytical Laboratories, Inc.

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag

Batch BH40876 - EPA 5035A				
Blank (BH40876-BLK1)				Prepared & Analyzed: 08/15/2014
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet	
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 ND	5.0	II .	
2-Chlorotoluene	ND ND	5.0	"	
2-Hexanone	ND ND	5.0	II .	
4-Chlorotoluene	ND ND	5.0	"	
4-Methyl-2-pentanone	ND ND	5.0	"	
Acetone			"	
Acrylonitrile	ND ND	10 5.0	II .	
Benzene	ND ND	5.0	"	
Bromobenzene			"	
Bromochloromethane	ND	5.0	"	
Bromodichloromethane	ND	5.0	"	
	ND	5.0	"	
Bromoform Bromomethane	ND	5.0	"	
Carbon disulfide	ND	5.0	"	
	ND	5.0	"	
Carbon tetrachloride	ND	5.0	"	
Chlorostene	ND	5.0	"	
Chloroform	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 Di Hang Kanada	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	"	



$\label{lem:compounds} \textbf{Volatile Organic Compounds by GC/MS-Quality Control Data}$

York Analytical Laboratories, Inc.

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag

onk (RH40976 RI K1)						Prepared & Analyzed: 08/15/2014
ank (BH40876-BLK1) ethylene chloride	NID	10	/l			7.0parea & 7.11ary 20a. 00/10/2014
phthalene	ND ND	10 10	ug/kg wet			
philialene Butylbenzene			"			
-	ND	5.0	"			
Propylbenzene	ND	5.0	"			
Zylene	ND	5.0	"			
k m- Xylenes	ND	10	"			
opropyltoluene	ND	5.0	"			
-Butylbenzene	ND	5.0				
rene	ND	5.0	"			
-Butylbenzene	ND	5.0	"			
rachloroethylene	ND	5.0	"			
rahydrofuran	ND	10	"			
luene	ND	5.0	"			
ns-1,2-Dichloroethylene	ND	5.0	"			
ns-1,3-Dichloropropylene	ND	5.0	"			
ns-1,4-dichloro-2-butene	ND	5.0	"			
chloroethylene	ND	5.0	"			
chlorofluoromethane	ND	5.0	"			
ıyl Chloride	ND	5.0	"			
rogate: 1,2-Dichloroethane-d4	51.2		ug/L	50.0	102	67-130
rogate: p-Bromofluorobenzene	50.2		"	50.0	100	75-127
rogate: Toluene-d8	50.3		"	50.0	101	90-112
						Prepared & Analyzed: 08/15/2014
CS (BH40876-BS1)						
1,2-Tetrachloroethane	50.4		ug/L	50.0	101	72-126
1-Trichloroethane	50.3		"	50.0	101	74-126
2,2-Tetrachloroethane	54.5		"	50.0	109	72-133
2-Trichloro-1,2,2-trifluoroethane (Freon 113)	73.0		"	50.0	146	47-160
2-Trichloroethane	51.2		"	50.0	102	81-124
Dichloroethane	49.7		"	50.0	99.3	80-125
Dichloroethylene	48.2		"	50.0	96.4	62-136
Dichloropropylene	48.2		"	50.0	96.5	81-121
3-Trichlorobenzene	49.1		"	50.0	98.2	63-154
3-Trichloropropane	50.7		"	50.0	101	70-126
4-Trichlorobenzene	49.9		"	50.0	99.8	61-158
4-Trimethylbenzene	53.1		"	50.0	106	83-123
Dibromo-3-chloropropane	51.0		"	50.0	102	48-152
Dibromoethane	52.8		"	50.0	106	81-123
Dichlorobenzene	47.7		"	50.0	95.4	81-117
Dichloroethane	50.0		"	50.0	99.9	67-129
Dichloropropane	52.0		"	50.0	104	74-127
5-Trimethylbenzene	52.7		"	50.0	105	81-120
Dichlorobenzene	49.0		"	50.0	98.0	84-117
Dichloropropane	52.3		"	50.0	105	77-125
Dichlorobenzene	47.3		"	50.0	94.6	85-118
Dichloropropane	50.4		"	50.0	101	69-129
utanone	50.8		"	50.0	102	58-159
hlorotoluene	51.4		"	50.0	103	75-123
exanone	54.8		"	50.0	110	50-154
Chlorotoluene	52.1		"	50.0	104	76-121
1ethyl-2-pentanone	53.4		"	50.0	107	53-149
otone	47.8		"	50.0	95.6	32-173



		Reporting		Spike	Source*		%REC			RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag	

	DIT 400= 6	TID A	
Ratch	RH40276	- H PA	51135 A

LCS (BH40876-BS1)					Pre	pared & 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	110	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	
Surrogate: 1,2-Dichloroethane-d4	51.5	"	50.0	103	67-130	
Surrogate: p-Bromofluorobenzene	52.5	"	50.0	105	75-127	
Surrogate: Toluene-d8	52.7	"	50.0	105	90-112	



		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag

CS Dup (BH40876-BSD1)					Prep	oared & Analy	zed: 08/15/2	014
1,1,2-Tetrachloroethane	50.9	ug/L	50.0	102	72-126		1.16	30
1,1-Trichloroethane	50.0	"	50.0	100	74-126		0.678	30
1,2,2-Tetrachloroethane	52.9	"	50.0	106	72-133		3.03	30
1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	70.0	"	50.0	140	47-160		4.29	30
1,2-Trichloroethane	51.8	"	50.0	104	81-124		1.28	30
1-Dichloroethane	50.4	"	50.0	101	80-125		1.56	30
1-Dichloroethylene	47.6	"	50.0	95.2	62-136		1.23	30
1-Dichloropropylene	47.9	"	50.0	95.8	81-121		0.749	30
2,3-Trichlorobenzene	51.1	"	50.0	102	63-154		3.89	30
2,3-Trichloropropane	49.2	"	50.0	98.4	70-126		3.12	30
2,4-Trichlorobenzene	50.3	"	50.0	101	61-158		0.719	30
2,4-Trimethylbenzene	51.5	"	50.0	103	83-123		3.10	30
2-Dibromo-3-chloropropane	56.0	"	50.0	112	48-152		9.41	30
2-Dibromoethane	52.3	"	50.0	105	81-123		1.01	30
2-Dichlorobenzene	50.5	"	50.0	101	81-117		5.76	30
2-Dichloroethane	49.4	"	50.0	98.8	67-129		1.15	30
2-Dichloropropane	53.7	"	50.0	107	74-127		3.06	30
3,5-Trimethylbenzene	51.2	"	50.0	107	81-120		2.85	30
B-Dichlorobenzene	49.3	"	50.0	98.6	84-117		0.651	30
3-Dichloropropane	53.2	"	50.0	106	77-125		1.65	30
4-Dichlorobenzene	49.0	"	50.0	97.9	85-118		3.43	30
2-Dichloropropane		"					1.08	30
Butanone	49.9	"	50.0	99.8	69-129		0.672	30
	50.4	"	50.0	101	58-159			
hlorotoluene	50.2		50.0	100	75-123		2.30	30
exanone	52.8	"	50.0	106	50-154		3.59	30
hlorotoluene	52.1	"	50.0	104	76-121		0.0960	30
Methyl-2-pentanone	54.2		50.0	108	53-149		1.39	30
etone	50.0	"	50.0	100	32-173		4.54	30
rylonitrile	48.1	"	50.0	96.2	50-158		3.37	30
nzene	48.2	"	50.0	96.4	83-126		2.17	30
omobenzene	54.8	"	50.0	110	70-130		2.61	30
omochloromethane	50.5	"	50.0	101	73-128		3.25	30
omodichloromethane	54.1	"	50.0	108	74-126		0.553	30
omoform	52.2	"	50.0	104	63-137		2.44	30
omomethane	55.0	"	50.0	110	24-144		2.21	30
rbon disulfide	47.6	"	50.0	95.3	29-64	High Bias	1.73	30
rbon tetrachloride	48.7	"	50.0	97.5	68-132		1.43	30
llorobenzene	49.2	"	50.0	98.4	87-115		1.91	30
lloroethane	48.2	"	50.0	96.3	39-146		10.2	30
loroform	49.0	"	50.0	97.9	84-120		1.38	30
loromethane	47.9	"	50.0	95.7	35-153		2.09	30
-1,2-Dichloroethylene	49.0	"	50.0	98.1	86-121		0.655	30
1,3-Dichloropropylene	54.2	"	50.0	108	78-122		1.08	30
promochloromethane	53.0	"	50.0	106	41-149		0.454	30
promomethane	50.8	"	50.0	102	82-118		1.51	30
chlorodifluoromethane	44.1	"	50.0	88.2	52-143		0.957	30
yl Benzene	51.1	"	50.0	102	81-118		2.72	30
xachlorobutadiene	52.6	"	50.0	105	70-133		6.01	30
propylbenzene	53.6	"	50.0	107	78-122		3.43	30
ethyl Methacrylate	54.4	"	50.0	109	73-131		1.02	30
thyl tert-butyl ether (MTBE)	47.0	"	50.0	94.0	62-140		6.41	30



$\label{lem:compounds} \textbf{Volatile Organic Compounds by GC/MS-Quality Control Data}$

York Analytical Laboratories, Inc.

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag
Batch BH40876 - EPA 5035A											
LCS Dup (BH40876-BSD1)							Prepa	ared & Anal	yzed: 08/15/2	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	
			"								
Surrogate: 1,2-Dichloroethane-d4	48.9		,,	50.0		97.9	67-130				
	51.9		"	50.0		104	75-127				
Surrogate: Toluene-d8	50.6		"	50.0		101	90-112		1.004.54		
Surrogate: Toluene-d8 Batch BH40890 - EPA 5030B Blank (BH40890-BLK1)	50.6			50.0		101		ared & Analy	yzed: 08/15/	2014	
Surrogate: Toluene-d8 Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone	2.8	2.0	ug/L	50.0		101		ared & Analy	yzed: 08/15/:	2014	
Surrogate: Toluene-d8 Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile	2.8 ND	0.50	ug/L	50.0		101		ared & Anal	yzed: 08/15/:	2014	
Surrogate: Toluene-d8 Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene	2.8 ND ND	0.50 0.50	ug/L "	50.0		101		ared & Anal	yzed: 08/15/	2014	
Surrogate: Toluene-d8 Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromobenzene	2.8 ND ND ND	0.50 0.50 0.50	ug/L " "	50.0		101		ared & Anal	yzed: 08/15/	2014	
Surrogate: Toluene-d8 Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromobenzene Bromochloromethane	2.8 ND ND ND ND	0.50 0.50 0.50 0.50	ug/L " "	50.0		101		ared & Anal	yzed: 08/15/:	2014	
Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromochloromethane Bromodichloromethane	2.8 ND ND ND ND ND	0.50 0.50 0.50 0.50 0.50	ug/L " " "	50.0		101		ared & Anal	yzed: 08/15/:	2014	
Surrogate: Toluene-d8 Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform	2.8 ND ND ND ND ND ND ND ND ND	0.50 0.50 0.50 0.50 0.50 0.50	ug/L " " " "	50.0		101		ared & Anal	yzed: 08/15/:	2014	
Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane	2.8 ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50	ug/L " " " " "	50.0		101		ared & Anal	yzed: 08/15/:	2014	
Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane 2-Butanone	2.8 ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50	ug/L " " " "	50.0		101		ared & Anal	yzed: 08/15/:	2014	
Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane 2-Butanone sec-Butylbenzene	2.8 ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	ug/L " " " " " "	50.0		101		ared & Anal	yzed: 08/15/:	2014	
Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane 2-Butanone sec-Butylbenzene n-Butylbenzene	2.8 ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	ug/L " " " " " " "	50.0		101		ared & Anal	yzed: 08/15/:	2014	
Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromobenzene Bromodichloromethane Bromodichloromethane Bromoform Bromomethane 2-Butanone sec-Butylbenzene n-Butylbenzene letert-Butylbenzene	2.8 ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	ug/L " " " " " " " "	50.0		101		ared & Anal	yzed: 08/15/:	2014	
Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromochloromethane Bromodichloromethane Bromodichloromethane Bromomethane 2-Butanone sec-Butylbenzene n-Butylbenzene tert-Butylbenzene Carbon disulfide	2.8 ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	ug/L " " " " " " " " "	50.0		101		ared & Anal	yzed: 08/15/:	2014	
Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromochloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromoform Bromomethane 2-Butanone sec-Butylbenzene n-Butylbenzene tert-Butylbenzene Carbon disulfide Carbon tetrachloride	2.8 ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	ug/L " " " " " " " " "	50.0		101		ared & Anal	yzed: 08/15/:	2014	
Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromochloromethane Bromodichloromethane Carbon tetrachloride Chlorobenzene	2.8 ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	ug/L " " " " " " " " " "	50.0		101		ared & Anal	yzed: 08/15/	2014	
Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromochloromethane Bromodichloromethane Carbon tetrachloride Carbon tetrachloride Chlorobenzene Chloroethane	2.8 ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	ug/L " " " " " " " " " " " "	50.0		101		ared & Anal	yzed: 08/15/	2014	
Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromochloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroform	2.8 ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	ug/L	50.0		101		ared & Anal	yzed: 08/15/	2014	
Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromochloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroform Chloromethane Chloromethane	2.8 ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	ug/L	50.0		101		ared & Anal	yzed: 08/15/	2014	
Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromochloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon disulfide Carbon tetrachloride Chlorotenane Chloroform Chloromethane Chlorotoluene	2.8 ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	ug/L	50.0		101		ared & Anal	yzed: 08/15/	2014	
Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromochloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon disulfide Carbon tetrachloride Chlorobenzene Chlorotoluene C-Chlorotoluene C-Chlorotoluene	2.8 ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	ug/L	50.0		101		ared & Anal	yzed: 08/15/	2014	
Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromochloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon disulfide Carbon disulfide Carbon tetrachloride Chlorobenzene Chlorotomethane Chlorotomethane Carbonomethane Chlorotomethane Chlorotomethane Chlorotomethane Chlorotomethane Chlorotoluene Carbonomethane Carbonomethane Chlorotoluene Carbonomethane Chlorotoluene Carbonomethane	2.8 ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	ug/L	50.0		101		ared & Anal	yzed: 08/15/:	2014	
Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromochloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane Carbon disulfide Carbon tetrachloride Chlorobenzene Chlorothane Chloroform Chloromethane 2-Chlorotoluene 4-Chlorotoluene 1,2-Dibromo-3-chloropropane Dibromochloromethane	2.8 ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	ug/L	50.0		101		ared & Anal	yzed: 08/15/:	2014	
Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromochloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane 2-Butanone sec-Butylbenzene en-Butylbenzene carbon disulfide Carbon tetrachloride Chlorobenzene Chlorotomethane Chloroform Chloromethane 1,2-Dibromo-3-chloropropane Dibromochloromethane 1,2-Dibromoethane	2.8 ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	ug/L	50.0		101		ared & Anal	yzed: 08/15/:	2014	
Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromochloromethane Bromodichloromethane Bromodichloromethane Bromodichloromethane 2-Butanone sec-Butylbenzene n-Butylbenzene tert-Butylbenzene Carbon disulfide Carbon tetrachloride Chlorobenzene Chlorothane Chloroform Chloromethane 2-Chlorotoluene 4-Chlorotoluene 1,2-Dibromo-3-chloropropane Dibromochloromethane Dibromomethane Dibromomethane	2.8 ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	ug/L	50.0		101		ared & Anal	yzed: 08/15/	2014	
Surrogate: p-Bromofluorobenzene Surrogate: Toluene-d8 Batch BH40890 - EPA 5030B Blank (BH40890-BLK1) Acetone Acrylonitrile Benzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane 2-Butanone sec-Butylbenzene n-Butylbenzene tert-Butylbenzene Carbon disulfide Carbon tetrachloride Chlorobenzene Chlorotone Chlorotone 1,2-Dibromo-3-chloropropane Dibromochloromethane 1,2-Dibromoethane Dibromomethane Dibromomethane Dibromomethane Trans-1,4-dichloro-2-butene 1,3-Dichlorobenzene	2.8 ND	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	ug/L	50.0		101		ared & Anal	yzed: 08/15/	2014	



York Analytical Laboratories, Inc.

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag

N						Prepared & Analyzed: 08/15/2014
Blank (BH40890-BLK1)						Prepared & Analyzed: 08/15/2014
,4-Dichlorobenzene	ND	0.50	ug/L			
,2-Dichlorobenzene	ND	0.50	"			
Dichlorodifluoromethane	ND	0.50	"			
,1-Dichloroethane	ND	0.50	"			
,2-Dichloroethane	ND	0.50	"			
is-1,2-Dichloroethylene	ND	0.50	"			
1-Dichloroethylene	ND	0.50	"			
rans-1,2-Dichloroethylene	ND	0.50	"			
2-Dichloropropane	ND	0.50	"			
,2-Dichloropropane	ND	0.50	"			
3-Dichloropropane	ND	0.50	"			
ans-1,3-Dichloropropylene	ND	0.50	"			
1-Dichloropropylene	ND	0.50	"			
s-1,3-Dichloropropylene	ND	0.50	"			
thyl Benzene	ND	0.50	"			
exachlorobutadiene	ND	0.50	"			
-Hexanone	ND	0.50	"			
opropylbenzene	ND	0.50	"			
-Isopropyltoluene	ND	0.50	"			
lethyl tert-butyl ether (MTBE)	ND	0.50	"			
lethylene chloride	ND	2.0	"			
lethyl Methacrylate	ND	0.50	"			
-Methyl-2-pentanone	ND	0.50	"			
aphthalene	3.0	2.0	"			
Propylbenzene	ND	0.50	"			
tyrene	ND	0.50	"			
1,1,2-Tetrachloroethane	ND	0.50	"			
1,2,2-Tetrachloroethane	ND	0.50	"			
etrachloroethylene	ND	0.50	"			
etrahydrofuran	ND	2.0	"			
bluene	ND	0.50	"			
2,3-Trichlorobenzene	1.6	0.50	"			
2,4-Trichlorobenzene	1.0	0.50	"			
1,1-Trichloroethane	ND	0.50	"			
1,2-Trichloroethane	ND	0.50	"			
richloroethylene	ND	0.50	"			
richlorofluoromethane	ND	0.50	"			
,2,3-Trichloropropane	ND	0.50	"			
,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"			
3,5-Trimethylbenzene	ND	0.50	"			
2,4-Trimethylbenzene	ND	0.50	"			
inyl Chloride	ND	0.50	"			
-Xylene	ND ND	0.50	"			
- & m- Xylenes	ND ND	1.0	"			
urrogate: 1,2-Dichloroethane-d4	51.2		"	50.0	102	81-123
urrogate: Toluene-d8	50.3		"	50.0	101	88-114
urrogate: p-Bromofluorobenzene	50.2		"	50.0	100	70-128



York Analytical Laboratories, Inc.

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag

Ratch	RH40890	- FPA	5030R

LCS (BH40890-BS1)					Pre	pared & 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	
romochloromethane	52.2	"	50.0	104	69-125	
romodichloromethane	54.4	"	50.0	109	84-117	
romoform	53.5	"	50.0	107	77-130	
romomethane	53.8	"	50.0	108	16-162	
Butanone	50.8	"	50.0	102	48-156	
ec-Butylbenzene	51.8	"	50.0	104	85-119	
Butylbenzene	51.4	"	50.0	103	76-125	
rt-Butylbenzene	54.7	"	50.0	109	83-119	
arbon disulfide	48.5	"	50.0	96.9	21-78	High Bias
arbon tetrachloride	48.0	"	50.0	96.1	72-132	
hlorobenzene	48.3	"	50.0	96.5	88-112	
nloroethane	43.5	"	50.0	86.9	29-172	
hloroform	49.6	"	50.0	99.3	77-124	
hloromethane	46.9	"	50.0	93.8	37-131	
Chlorotoluene	51.4	"	50.0	103	81-118	
Chlorotoluene	52.1	"	50.0	104	81-117	
2-Dibromo-3-chloropropane	51.0	"	50.0	102	60-146	
bromochloromethane	52.7	"	50.0	105	72-131	
2-Dibromoethane	52.8	"	50.0	106	82-122	
ibromomethane	50.0	,,	50.0	100	85-116	
uns-1,4-dichloro-2-butene	56.2	,,	50.0	112	70-130	
3-Dichlorobenzene	49.0	,,	50.0	98.0	83-117	
4-Dichlorobenzene	47.3	,,	50.0		83-117	
2-Dichlorobenzene		"		94.6		
chlorodifluoromethane	47.7	"	50.0	95.4	85-115	
	43.7	"	50.0	87.4	47-152	
1-Dichloroethane	49.7		50.0	99.3	70-131	
2-Dichloroethane	50.0		50.0	99.9	72-126	
s-1,2-Dichloroethylene	48.7		50.0	97.4	77-124	
1-Dichloroethylene	48.2		50.0	96.4	60-143	
ans-1,2-Dichloroethylene	48.1	"	50.0	96.2	55-148	
2-Dichloropropane	50.4	"	50.0	101	60-135	
2-Dichloropropane	52.0	"	50.0	104	78-119	
3-Dichloropropane	52.3	"	50.0	105	79-121	
nns-1,3-Dichloropropylene	55.0	"	50.0	110	77-120	
1-Dichloropropylene	48.2	"	50.0	96.5	78-122	
s-1,3-Dichloropropylene	53.6	"	50.0	107	81-117	
hyl Benzene	49.7	"	50.0	99.5	86-114	
exachlorobutadiene	49.6	"	50.0	99.2	68-139	
Hexanone	54.8	"	50.0	110	50-151	
opropylbenzene	51.8	"	50.0	104	84-118	
Isopropyltoluene	49.5	"	50.0	99.0	84-121	
ethyl tert-butyl ether (MTBE)	50.1	"	50.0	100	49-156	
ethylene chloride	48.8	"	50.0	97.5	51-145	
ethyl Methacrylate	53.8	"	50.0	108	70-130	
Methyl-2-pentanone	53.4	"	50.0	107	55-147	
aphthalene	51.4	"	50.0	103	67-141	
-Propylbenzene	52.4	"	50.0	105	84-118	



York Analytical Laboratories, Inc.

Spike

Source*

Reporting

	Rep	oorting	Spike	Source*		%REC			KFD	
Analyte	Result	Limit Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag
Batch BH40890 - EPA 5030B										
LCS (BH40890-BS1)						Prep	oared & Analy	zed: 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				
Surrogate: 1,2-Dichloroethane-d4	51.5	"	50.0		103	81-123				
Surrogate: Toluene-d8	52.7	"	50.0		105	88-114				
Surrogate: p-Bromofluorobenzene	52.5	"	50.0		105	70-128				
LCS Dup (BH40890-BSD1)						Prep	oared & Analy	zed: 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	
Bromochloromethane	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	
120 RESEARCH DRIVE	STRATFORD, CT 06			(203) 325-13	 371		FAX (203)	357-0166		

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 37 of 55

RPD

%REC



		Reporting		Spike	Source*		%REC			RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag	

Batch BH40890 - EPA 5030B					Prepared &	Analyzed: 08/15/2	2014
LCS Dup (BH40890-BSD1)						<u>-</u>	
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
,2-Dichloroethane	49.4	"	50.0	98.8	72-126	1.15	30
is-1,2-Dichloroethylene	49.0	"	50.0	98.1	77-124	0.655	30
,1-Dichloroethylene	47.6	"	50.0	95.2	60-143	1.23	30
rans-1,2-Dichloroethylene	47.3	"	50.0	94.6	55-148	1.64	30
,2-Dichloropropane	49.9	"	50.0	99.8	60-135	1.08	30
,2-Dichloropropane	53.7	"	50.0	107	78-119	3.06	30
,3-Dichloropropane	53.2	"	50.0	106	79-121	1.65	30
rans-1,3-Dichloropropylene	55.8	"	50.0	112	77-120	1.50	30
1-Dichloropropylene	47.9	"	50.0	95.8	78-122	0.749	30
is-1,3-Dichloropropylene	54.2	"	50.0	108	81-117	1.08	30
thyl Benzene	51.1	"	50.0	102	86-114	2.72	30
Hexachlorobutadiene	52.6	"	50.0	105	68-139	6.01	30
-Hexanone	52.8	"	50.0	106	50-151	3.59	30
sopropylbenzene	53.6	"	50.0	107	84-118	3.43	30
-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
1ethylene chloride	49.0	"	50.0	97.9	51-145	0.409	30
Iethyl Methacrylate	54.4	"	50.0	109	70-130	1.02	30
-Methyl-2-pentanone	54.2	"	50.0	108	55-147	1.39	30
aphthalene	50.0	"	50.0	100	67-141	2.68	30
-Propylbenzene	52.8	"	50.0	106	84-118	0.741	30
tyrene	52.7	"	50.0	105	77-126	2.75	30
,1,1,2-Tetrachloroethane	50.9	"	50.0	102	85-118	1.16	30
,1,2,2-Tetrachloroethane	52.9	"	50.0	106	71-130	3.03	30
etrachloroethylene	50.6	"	50.0	101	75-129	1.64	30
etrahydrofuran	49.2	"	50.0	98.5	70-130	1.06	30
foluene	52.1	"	50.0	104	86-113	2.17	30
,2,3-Trichlorobenzene	51.1	"	50.0	102	68-140	3.89	30
,2,4-Trichlorobenzene	50.3	"	50.0	101	65-143	0.719	30
,1,1-Trichloroethane	50.0	"	50.0	100	74-128	0.678	30
,1,2-Trichloroethane	51.8	"	50.0	104	80-122	1.28	30
richloroethylene	51.9	"	50.0	104	85-115	3.53	30
richlorofluoromethane	45.4	"	50.0	90.9	69-131	1.62	30
,2,3-Trichloropropane	49.2	"	50.0	98.4	77-125	3.12	30
,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	70.0	"	50.0	140	51-157	4.29	30
,3,5-Trimethylbenzene	51.2	"	50.0	102	84-118	2.85	30
,2,4-Trimethylbenzene	51.5	"	50.0	103	83-121	3.10	30
7inyl Chloride	46.2	"	50.0	92.4	44-152	3.10	30
-Xylene	54.5	"	50.0	109	85-114	1.24	30
- & m- Xylenes	98.6	"	100	98.6	84-117	3.01	30
urrogate: 1,2-Dichloroethane-d4	48.9	"	50.0	97.9	81-123		
'urrogate: Toluene-d8	50.6	"	50.0	101	88-114		
urrogate: p-Bromofluorobenzene	51.9	"	50.0	104	70-128		



York Analytical Laboratories, Inc.

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag

Batch BH40720 - EPA 3545A

Chrysene

Dibenzofuran

Carbazole

Dibenzo(a,h)anthracene

Di-n-butyl phthalate

2,4-Dichlorophenol

Diethyl phthalate

2,4-Dimethylphenol

Dimethyl phthalate

2,4-Dinitrophenol

2,6-Dinitrotoluene

2,4-Dinitrotoluene

Fluoranthene

Fluorene

Di-n-octyl phthalate

Hexachlorobenzene

Hexachloroethane

Isophorone

Hexachlorobutadiene

Indeno(1,2,3-cd)pyrene

1-Methylnaphthalene

2-Methylnaphthalene

3- & 4-Methylphenols

2-Methylphenol

Naphthalene

3-Nitroaniline

4-Nitroaniline

2-Nitroaniline

Hexachlorocyclopentadiene

Bis(2-ethylhexyl)phthalate

4,6-Dinitro-2-methylphenol

3,3'-Dichlorobenzidine

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 "	

ND

250

250

250

250

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250



		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag

Blank (BH40720-BLK1)						Prepared: 08/13/2014 Analyzed: 08/14/20
litrobenzene	ND	250	ug/kg wet			
-Nitrophenol	ND	250	"			
-Nitrophenol	ND	250	"			
-nitroso-di-n-propylamine	ND ND	250	"			
-Nitrosodiphenylamine	ND ND	250	"			
entachloronitrobenzene	ND ND	250	"			
entachlorophenol			"			
nenanthrene	ND	250	"			
	ND	250	"			
nenol	ND	250	"			
/rene	ND	250	,,			
vridine	ND	250	,,			
2,4,5-Tetrachlorobenzene	ND	250				
2,4-Trichlorobenzene	ND	250	"			
4,6-Trichlorophenol	ND	250	"			
4,5-Trichlorophenol	ND	250	"			
urrogate: 2-Fluorophenol	2600		"	3760	69.0	10-105
urrogate: Phenol-d5	1940		"	3750	51.7	10-118
rrogate: Nitrobenzene-d5	1680		"	2510	66.8	10-140
rrogate: 2-Fluorobiphenyl	1790		"	2500	71.6	10-126
rrogate: 2,4,6-Tribromophenol	2470		"	3750	65.8	10-150
rrogate: Terphenyl-d14	2660		"	2500	106	10-137
CS (BH40720-BS1)						Prepared: 08/13/2014 Analyzed: 08/14/20
cenaphthene	2340	250	ug/kg wet	2500	93.8	17-124
enaphthylene	2090	250	"	2500	83.5	16-124
niline	1250	250	"	2500	50.1	10-111
nthracene	2440	250	"	2500	97.4	24-124
enzo(a)anthracene	2260	250	"	2500	90.3	25-134
enzo(a)pyrene	2820	250	"	2500	113	29-144
enzo(b)fluoranthene	2990	250	"	2500	120	20-151
enzo(g,h,i)perylene	1970	250	"	2500	78.7	10-153
enzo(k)fluoranthene	2340	250	"	2500	93.5	10-148
enzyl butyl phthalate	2680	250	"	2500	107	10-132
Bromophenyl phenyl ether	2360	250	"	2500	94.5	30-138
Chloro-3-methylphenol	2210	250	"	2500	88.4	16-138
Chloroaniline	2000	250	"	2500	79.8	10-117
is(2-chloroethoxy)methane	1570	250	"	2500	62.6	10-129
s(2-chloroethyl)ether	1290	250	"	2500	51.5	14-125
is(2-chloroisopropyl)ether	778	250	"	2500	31.1	14-122
Chloronaphthalene	2060	250	"	2500	82.6	22-115
Chlorophenol	1580	250	"	2500	63.0	25-121
Chlorophenyl phenyl ether	2120	250	"	2500	84.8	18-132
hrysene	2730	250	"	2500	109	24-116
benzo(a,h)anthracene	1940	250	"	2500	77.7	24-116 17-147
benzofuran	2140	250	,,	2500		23-123
-n-butyl phthalate			"		85.7	
	2340	250	"	2500	93.4	19-123
8'-Dichlorobenzidine	2610	250		2500	104	10-147
4-Dichlorophenol	1920	250	"	2500	76.8	23-133
arbazole	2630	250	"	2500	105	31-120
iethyl phthalate	2460	250	"	2500	98.6	23-122



		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	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



		Reporting		Spike	Source*		%REC			RPD		1
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag	

Batch BH40720 - EPA 3545A								
LCS Dup (BH40720-BSD1)						Prepared	08/13/2014 Analyze	d: 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	10-117	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	14-123	5.92	30
2-Chloronaphthalene	2000	250	"	2500	80.1	22-115	3.10	30
2-Chlorophenol			"				3.25	30
4-Chlorophenyl phenyl ether	1630	250	"	2500 2500	65.1 82.5	25-121	2.70	30
Chrysene	2060	250	"			18-132	0.656	30
Dibenzo(a,h)anthracene	2750	250	"	2500	110	24-116	13.0	30
Dibenzofuran	2210	250	"	2500	88.5	17-147	1.58	30
	2110	250	"	2500	84.4	23-123	1.38	30
Di-n-butyl phthalate	2360	250	"	2500	94.5	19-123		30
3,3'-Dichlorobenzidine	2750	250	"	2500	110	10-147	5.26	
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
sophorone	1690	250	"	2500	67.7	14-131	0.207	30
l-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



		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag

LCS Dup (BH40720-BSD1)						Prepared: 08/13/2014 Analyzed: 08/14/201					
Vitrobenzene	1640	250	ug/kg wet	2500	65.5	20-121	3.83	30			
-Nitrophenol	1930	250	"	2500	77.3	17-129	2.63	30			
-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			
entachloronitrobenzene	3030	250	"	2500	121	40-140	1.91	30			
entachlorophenol	1660	250	"	2500	66.2	10-143	1.68	30			
henanthrene	2450	250	"	2500	98.0	24-123	0.265	30			
Phenol	1210	250	"	2500	48.2	15-123	4.10	30			
yrene	2870	250	"	2500	115	24-132	2.66	30			
yridine	900	250	"	2500	36.0	10-92	0.389	30			
,2,4,5-Tetrachlorobenzene	1990	250	"	2500	79.5	10-144	1.35	30			
,2,4-Trichlorobenzene	1940	250	"	2500	77.4	23-130	0.596	30			
,4,6-Trichlorophenol	1880	250	"	2500	75.4	27-122	0.212	30			
,4,5-Trichlorophenol	2030	250	"	2500	81.3	14-138	0.890	30			
Gurrogate: 2-Fluorophenol	2430		"	3760	64.7	10-105					
Surrogate: Phenol-d5	2000		"	3750	53.5	10-118					
Gurrogate: 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 A	Analytical	l Laboratori	ies, Inc.
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Spike

Source*

Reporting

		Reporting		Spike	Source*		%REC			KI D	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag
Batch BH40723 - EPA 3545_A											
Blank (BH40723-BLK1)							Prepa	ared: 08/13/2	2014 Analyz	ed: 08/14/2	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	"								
Surrogate: Decachlorobiphenyl	82.2		"	100		82.2	30-140				
Surrogate: Tetrachloro-m-xylene	79.2		"	100		79.2	30-140				
-	77.2			100		77.2		1 00/12/2	20144 1	1 00/14/0	1014
LCS (BH40723-BS1)								ared: 08/13/2	2014 Analyz	ed: 08/14/2	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			"	50.0		86.4	40-140				
Endosulfan sulfate	43.2	0.330		30.0							
	49.1	0.330	"	50.0		98.2	40-140				
Endrin	49.1 44.6	0.330 0.330	"	50.0 50.0		98.2 89.3	40-140 40-140				
Endrin Endrin aldehyde	49.1 44.6 40.2	0.330 0.330 0.330	" "	50.0 50.0 50.0		98.2 89.3 80.4	40-140 40-140 40-140				
Endrin Endrin aldehyde Endrin ketone	49.1 44.6 40.2 45.1	0.330 0.330 0.330 0.330	" " "	50.0 50.0 50.0 50.0		98.2 89.3 80.4 90.2	40-140 40-140 40-140 40-140				
Endrin Endrin aldehyde Endrin ketone gamma-BHC (Lindane)	49.1 44.6 40.2 45.1 45.6	0.330 0.330 0.330 0.330 0.330	" " " " " " " " " " " " " " " " " " " "	50.0 50.0 50.0 50.0 50.0		98.2 89.3 80.4 90.2 91.3	40-140 40-140 40-140 40-140 40-140				
Endrin Endrin aldehyde Endrin ketone gamma-BHC (Lindane) Heptachlor	49.1 44.6 40.2 45.1 45.6 41.7	0.330 0.330 0.330 0.330 0.330	" " " " " " " " " " " " " " " " " " " "	50.0 50.0 50.0 50.0 50.0 50.0		98.2 89.3 80.4 90.2 91.3 83.5	40-140 40-140 40-140 40-140 40-140				
Endrin Endrin aldehyde Endrin ketone gamma-BHC (Lindane) Heptachlor Heptachlor epoxide	49.1 44.6 40.2 45.1 45.6	0.330 0.330 0.330 0.330 0.330	" " " " " " " " " " " " " " " " " " " "	50.0 50.0 50.0 50.0 50.0		98.2 89.3 80.4 90.2 91.3	40-140 40-140 40-140 40-140 40-140				
Endrin Endrin aldehyde Endrin ketone gamma-BHC (Lindane) Heptachlor	49.1 44.6 40.2 45.1 45.6 41.7	0.330 0.330 0.330 0.330 0.330	" " " " " " " " " " " " " " " " " " " "	50.0 50.0 50.0 50.0 50.0 50.0		98.2 89.3 80.4 90.2 91.3 83.5	40-140 40-140 40-140 40-140 40-140				
Endrin Endrin aldehyde Endrin ketone gamma-BHC (Lindane) Heptachlor Heptachlor epoxide	49.1 44.6 40.2 45.1 45.6 41.7 43.2	0.330 0.330 0.330 0.330 0.330 0.330	" " " " " " " " " " " " " " " " " " " "	50.0 50.0 50.0 50.0 50.0 50.0 50.0		98.2 89.3 80.4 90.2 91.3 83.5 86.4	40-140 40-140 40-140 40-140 40-140 40-140				

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

RPD

%REC



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag
Batch BH40723 - EPA 3545_A											
LCS Dup (BH40723-BSD1)							Prepa	ared: 08/13/2	014 Analyz	ed: 08/14/2	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				

100

114

30-140

114

Surrogate: Tetrachloro-m-xylene

120 RESEARCH DRIVE STRATFORD, CT 06615 FAX (203) 35<u>7-0166</u> (203) 325-1371



Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag

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	"			
urrogate: 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.

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag
Batch BH40763 - EPA 3550B/8151A											
Blank (BH40763-BLK1)							Pre	pared: 08/13/2	014 Analyz	ed: 08/14/2	2014
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				
LCS (BH40763-BS1)							Pre	pared: 08/13/2	014 Analyz	ed: 08/14/2	2014
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				
LCS Dup (BH40763-BSD1)							Pre	pared: 08/13/2	014 Analyz	ed: 08/14/2	2014
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				

120 RESEARCH DRIVE STRATFORD, CT 06615 FAX (203) 35<u>7-0166</u> (203) 325-1371



Gas Chromatography/Flame Ionization Detector - Quality Control Data York Analytical Laboratories, Inc.

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag
Batch BH40908 - EPA 3545A											
Blank (BH40908-BLK1)							Prep	ared: 08/18/2	2014 Analyz	ed: 08/19/2	2014
ETPH (Extractable Total Petroleum Hydrocarbons)	ND	10.0	mg/kg wet								
Surrogate: 1-Chlorooctadecane	7.79		"	10.0		77.9	50-150				
LCS (BH40908-BS1)							Prep	ared: 08/18/2	2014 Analyz	ed: 08/19/2	2014
ETPH (Extractable Total Petroleum Hydrocarbons)	60.9	10.0	mg/kg wet	75.0		81.2	60-120				
Surrogate: 1-Chlorooctadecane	8.66		"	10.0		86.6	50-150				
LCS Dup (BH40908-BSD1)							Prep	ared: 08/18/2	2014 Analyz	ed: 08/19/2	2014
ETPH (Extractable Total Petroleum Hydrocarbons)	60.8	10.0	mg/kg wet	75.0		81.1	60-120		0.164	30	
Surrogate: 1-Chlorooctadecane	8.09		"	10.0		80.9	50-150				



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

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag

lank (BH40842-BLK1)						Prepared & Analyzed: 08/15/2014
ntimony	ND	0.500	mg/kg wet			
rsenic	ND	1.00	"			
arium	ND	1.00	"			
eryllium	ND	0.100	"			
admium	ND	0.300	"			
hromium	ND	0.500	"			
ppper	ND	0.500	"			
ead	ND	0.300	"			
ickel	ND	0.500	"			
elenium	ND	1.00	"			
ilver	ND	0.500	"			
allium	ND	1.00	"			
anadium	ND	1.00	"			
nc	ND	1.00	"			
eference (BH40842-SRM1)						Prepared & Analyzed: 08/15/2014
timony	119	0.500	mg/kg wet	129	92.2	22.4-250
senic	81.2	1.00	"	88.4	91.8	69-131
rium	183	1.00	"	210	87.3	73.3-127
eryllium	51.5	0.100	"	55.8	92.2	73.1-127
admium	125	0.300	"	142	87.8	73.2-128
hromium	74.2	0.500	"	86.8	85.5	69.1-131
opper	255	0.500	"	268	95.3	76.1-124
ead	85.6	0.300	"	97.9	87.4	70.8-129
ckel	221	0.500	"	236	93.8	74.2-128
elenium	117	1.00	"	127	92.1	66.6-134
lver	57.3	0.500	"	66.2	86.6	67.1-133
nallium	124	1.00	"	140	88.7	68.3-132
anadium	134	1.00	"	156	85.6	71.8-129
inc	111	1.00	"	161	69.1	66.9-133



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

York Analytical Laboratories, Inc.

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag

Batch	BH40	795 -	EPA '	7473	soil
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Blank (BH40795-BLK1)					Prepared & Analyzed: 08/14/2014
Mercury	ND	0.0300 mg/kg wet			
Reference (BH40795-SRM1)					Prepared & Analyzed: 08/14/2014
Mercury	3.2393	mg/kg	3.73	86.8	68.6-131

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 50 of 55



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.
В	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.
	46 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet e separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.

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



YORK ANALYTICAL LABORATORIES

STRATFORD, CT 06615 FAX (203) 357-0166 120 RESEARCH DR. (203) 325-1371

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.

This document serves as your written authorization to York to proceed with the analyses requested and your

Sork Project No. 14405223

signature binds you to York's Std. Terms & Conditions.

Page / of 2

YOUR Information Report To:			YOUR Project ID	lurn-Around lime		
Company: Same	Company:	Sayne	NEW LEIDGRAIN	RUSH - Same Day RUSH - Next Day	Summary weport Summary w/ QA Summary CT RCP Package	8
			Purchase Order No.	RUSH - Two Day	CTRCP DQA/DUE Pkg	
Phone No.	Phone No.		140109001	RUSH - Three Day RUSH - Four Day	NY ASP A Package NY ASP B Package	
A BANG A A A S. CAN	E-Mail Address:		Samples from: CT \ NY NJ	Standard(5-7 Days)	INJUEF Red. Deliv. Electronic Data Deliverables (EDD)	(aas
Print Clourly and Locibly All Information must be complete	t he complete	Volatiles	Pest/PCB/Herb Metals	g. Full Lists	Simple Excel	1
Samples will NOT be logged in and the turn-around time	-around time	8260 full TICs 8270 or 625 624 Site Spec. STARS list	8270 or 625 8082PCB RCRA8 TPH GRO STARS list 8081Pest PP13 list TPH DRO	Pri.Poll. Corrosivity TCL Organics Reactivity	N I SDEC EQUIS EQuIS (std)	
clock will not begin until any questions by York are resolved.	are resolved.	STARS list Nassau Co. BN Only BTEX Suffelb Co. Acids Only	nly 8151Herb TAL CTETPH	TAL MetCN Ignitability 3 Evil TCT D Flash Point	EZ-EDD (EQuIS)	1
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ー 	S - soil Other - specify(oil, etc.)	Oxygenates TCLP list	st Site Spec. NJDEP list list SPLP or TCLP Total	Part 360-Rouine Part 360-Baseline	Other York Regulatory Comparison	
Signature)	WW - wastewater GW - groundwater DW - drinking water	CT RCP list 524.2 TCL list Arom. only 502.2 NJDEP list Halog.only NJDEP list App. IX	ist TCLP Pest Dissolved Air STARS Plist TCLP Herb SPLPorTCLP Air VPH X Chlordane Indix.Metals Air TICs	Part 360-Espanda BTU/lb. No Dozense Ferrare Part 360-Espanda Aquatic Tox. NYCDEP Sewer TOC	Excel Spreadsheet Compare to the following Regs. (please fill in):	ii
A	Air-A - ambient air Air-SV - soil vapor	App.IX list SPLP or TCLP BNA 8021B list SPLP or TCLP	TCLP BNA 608 Pest LIST Below Methane SPLP or TCLP 608 PCB Helium	NYSDECSever Asbestos TAGM Silica		
Date/Time Sampled S	Sample Matrix	Choose Analyses I	led from the Me	ove and Enter Below	Container Description(s)	
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Page 2 of 2 York Project No. 14HOS23 Report Type CTRCP DQA/DUE Pkg Summary w/ QA Summary NY ASP A Package NY ASP B Package NJDEP Red. Deliv. Summary Report CT RCP Package Simple Excel **Turn-Around Time** Standard(5-7 Days) RUSH - Three Day RUSH - Same Day RUSH - Next Day RUSH - Two Day RUSH - Four Day This document serves as your written authorization to York to proceed with the analyses requested and your Field Chain-of-Custody Record NOTE: York's Std. Terms & Conditions are listed on the back side of this document. Purchase Order No. YOUR Project ID Samples from: CT X NY 140109001 10000 signature binds you to York's Std. Terms & Conditions. Invoice To: Samp E-Mail Address: Company: Phone No. Attention: Same Report To: YORK ANALYTICAL LABORATORIES E-Mail Address: MgC (Back Colaborate of the Mail Address: MgC (Back Collaborate of the MgC) STRATFORD, CT 06615 FAX (203) 357-0166 120 RESEARCH DR. Attention: Contact Person: H. Gree bach YOUR Information andan

Temperature on Receipt Electronic Data Deliverables (EDD) mpare to the following Regs. (please fill in): York Regulatory Comparison NJDEP SRP HazSite EDD Description(s) NYSDEC EQuIS EZ-EDD (EQuIS) Excel Spreadsheet GIS/KEY (std) EQuIS (std) Date/Time Choose Analyses Needed from the Menu Above and Enter Below Part 3604-spended Aquatic Tox. Flash Point Sieve Anal. critability Misc. Org. Full Lists Misc. NYSDECSewer | Asbestos Samples Received By No Descriptions BTU/lb. Part 360 Baseline TOX TCL Ognics Part 360-Routine NYCDEP Sower Full App. IX TAL MetCN Full TCLP Pri.Poll. NY 310-13 Air TO14A TPH DRO TPH GRO TPH 1664 CT ETPH Air STARS Air TO15 TCLP Herb SPLPorTCLP Air VPH Indiv. Metals | Air TICs Methane Semi-Vols, PestPCBHerh Metals TAGM list NJDEP list Dissolved CT15 list LIST Below PP13 list RCRA8 CT RCP list SPLP or TCLP Total TAL 8270 or 625 8082PCB TCLP Pest STARS list 8081Pest 8151Herb Site Spec. Chlordane App. IX Acids Only CT RCP App.IX list SPLP or TCLP BNA 608 Pest NJDEP list TAGM list PAH list **ICL** list BN Only App. IX Samples Relinduished By Suffolk Co. Halog.only NJDEP list Nassau Co. Oxygenates Site Spec. TCLP list Ketones CT RCP list 524.2 Arom. only 502.2 clock will not begin until any questions by York are resolved. TAGM list Print Clearly and Legibly. All Information must be complete. 8260 full BTEX MTBE **TCL**list Samples will NOT be logged in and the turn-around time 624 S - soil Other - specify(oil, etc.) DW - drinking water Sample Matrix Check those Applicable GW - groundwater Matrix Codes WW - wastewater Air-A - ambient air Air-SV - soil vapor Preservation geose ce rwohlstrom@langenclabtoFilterd on deliverables Instructions Special Date/Time Sampled 1)s must weet CT RSK Sample Identification 1annah (

Samples Received In LAB by

Date/Time

Samples Relinquished By

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





LANGAN

20 April 2015

Mr. Ryan Malin AKT Group, LLC 750 East Main Street, Suite 501 Stamford, CT 06902

Re: **Limited Supplemental Phase II Environmental Site Investigation** William Street Baseball Field William Street West and Church Street **Greenwich, Connecticut** Langan Project No.: 140109002

Dear Mr. Malin,

Langan CT, Inc. (Langan) prepared this report to document the results of the Limited Supplemental Phase II Environmental Site Investigation (ESI) performed on behalf of AKF Group, LLC (AKF) for the William Street Baseball Field located at the intersection of William Street West and Church Street in the Town of Greenwich, Connecticut (hereafter referred to as the "Site"). The Site encompasses approximately 55,000 square feet (SF) 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 Site is improved with a public baseball field.

This letter report describes the sampling methodology, field observations, and analytical results of the shallow subsurface investigation, which included the completion of 20 shallow hang auger soil borings (0 to 1 feet bgs) to further investigate the presence and/or extent of arsenicimpacted soils at the Site.

PREVIOUS ENVIRONMENTAL INVESTIGATION

Langan conducted a Limited Phase II ESI on the Site on 11 August 2014, which included the completion of a geophysical survey, the oversight of three environmental soil borings, and the collection/analysis of three shallow soil samples. Soil analytical testing data obtained during the Limited Phase II ESI was compared to the Connecticut Department of Energy and Environmental Protection's (CTDEEP) Remediation Standard Regulations (RSRs) Residential Direct Exposure Criteria (RDEC) and the Industrial/Commercial Direct Exposure Criteria (I/C DEC), which in both cases is 10 milligrams per kilogram (mg/kg). The DEC is established to protect human health from risks associated with direct exposure to pollutants in contaminated soil within 15 feet of the ground surface. Laboratory analytical results of the subsurface material identified concentrations of arsenic exceeding the DEC in two of the three borings at depths ranging from 1 to 2 feet below grade surface (bgs). Arsenic was detected at a

Langan Project No.: 140109002

concentration of 144 and 89.2 mg/kg in SB-7 and SB-8, respectively, above the DEC of 10 mg/kg.

Based on a review of historical aerial photographs, the baseball field was constructed sometime before 1934 and the source of material used to grade and construct the baseball field is unknown.

FIELD INVESTIGATION

Langan implemented a supplemental field investigation on 24 March 2015 to further investigate the presence and/or extent of shallow arsenic-impacted soils at the William Street Baseball Field. Our scope included the completion of 20 shallow hand auger soil borings (0 to 1 feet bgs) and collection of 20 grab soil samples (plus one duplicate sample). Soil sampling procedures and results are discussed below. A summary of the environmental samples laboratory analytical data is provided in Table 1 and the soil boring locations are shown on Figure 2. All samples were analyzed by a CTDPH certified laboratory, York Analytical Laboratories of Stratford, Connecticut.

Soil Investigation

On 24 March 2015, 20 soil borings (HA-1 through HA-20) were advanced by a Langan field engineer at the locations shown on Figure 2. The sampling locations were spatially located based on a grid system to cover the entire footprint of the baseball field (including the infield and dugout areas) at a frequency of approximately 1 sample per 2,700 SF. A hand auger and posthole digger were used to collect the samples. The borings were advanced to a depth of approximately 1 ft bgs, and one discrete (grab) soil sample was collected from each boring. The hand auger and posthole digger were decontaminated between boring locations with a non-phosphate detergent (Liquinox) and water wash and fresh water rinse. Quality assurance/quality control (QA/QC) measures included the collection of one duplicate soil sample (DUP-1), which was collected from boring HA-13, and the collection of one field blank off of the decontaminated sampling equipment. The soil samples and QA/QC samples were submitted to York Analytical Laboratories under a standard chin-of-custody protocol for analysis of Arsenic. A summary of soil analytical data is presented in Table 1. Analytical reports and chain-of-custody documentation are provided in Attachment A.

OBSERVATIONS AND RESULTS

Soil Sample Analytical Results

Twenty-one soil samples were submitted for laboratory analysis, including one duplicate sample. Analytical results were compared to the RDEC and I/C DEC. The soil analytical results are presented in Table 1 and Figure 2.

Arsenic

Arsenic was detected at concentrations exceeding the RDEC and I/C DEC, both established at 10 mg/kg, in five soil samples (plus the duplicate QA/QC sample). These samples included HA-5 (94.3 mg/kg), HA-6 (214 mg/kg), HA-8 (16.7 mg/kg), HA-10 (18 mg/kg), HA-13 (132 mg/kg), and DUP-1 (152 mg/kg). Arsenic was detected in the remaining samples at concentrations above laboratory report limits but below the RDEC and I/C DEC. Arsenic was not detected in the field blank above laboratory reporting limits.

CONCLUSIONS

This Limited Supplemental Phase II ESI included the completion of 20 environmental soil borings, and the collection/analysis of 21 soil samples for arsenic. Soil analytical testing data was compared to the CTDEEP RSR Direct Exposure Criteria (DEC). Our conclusions are as follows:

Laboratory analytical results of the shallow subsurface material (0 to 1 feet bgs) identified concentrations of arsenic ranging from 16.7 to 214 mg/kg, exceeding the DEC of 10 mg/kg, in 5 of the 20 sampling locations throughout the Site.

This letter report does not constitute a full characterization of the site soils. Should future work yield an export of soils, we would recommend a waste characterization sampling program to characterize those soils slated for export.

LIMITATIONS

This Supplementary Limited Phase II ESI report was prepared expressly for the AKF Group, LLC for the William Street Baseball Field property located at the intersection of William Street West and Church Street, and for the objectives defined herein. Langan cannot assume responsibility for the use of this report for any property other than the specific site addressed in this report, or by any third party without specific written authorization from Langan.

The conclusions and opinions provided in this report are based on subsurface conditions ascertained from the analysis of a limited number of samples. Actual conditions encountered may differ substantially from those presented herein and should be brought to our attention whereby we may determine how such changes may affect our conclusions.

CLOSURE

Langan Project No.: 140109002

Should you have any questions regarding the findings presented in this report, please feel free to call us at 203-784-3069.

Sincerely,

Langan CT, Inc.

Ryan J. Wohlstrom Project Engineer

Jamie P. Barr, L.E.P.

Senior Associate/Vice President

Enclosures: Table 1 – Soil Sample Analytical Results

Figure 1 – Site Location Map

Figure 2 – Soil Analytical Results Map

Attachment A – Laboratory Analytical Report

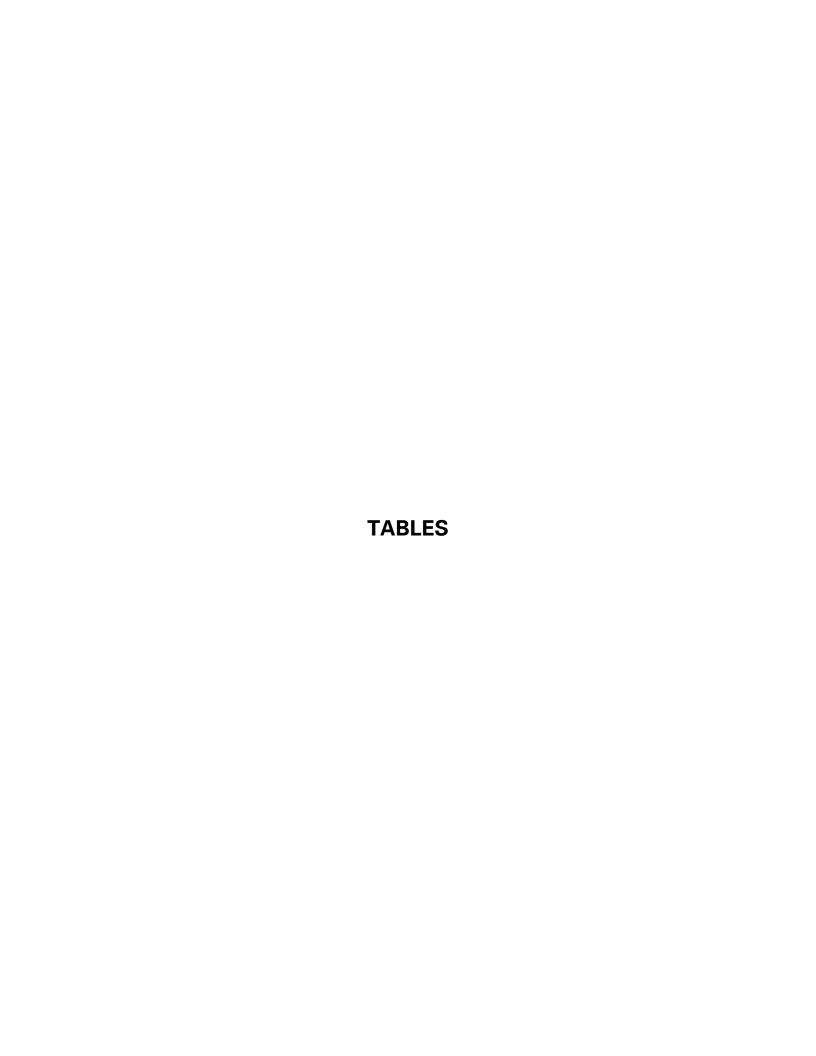


Table 1 Soil Sample Analytical Results William Street Baseball Field Greenwich, Connecticut 140109002

	Sample ID	Residential	Indus./Comm.	HA-1	HA-2	HA-3	HA-4	HA-5	HA-6	HA-7	HA-8	HA-9	HA-10	HA-11	HA-12	HA-13
	Depth of Sample (ft)	Direct Exposure	Direct Exposure	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
		Criteria	Criteria													
Parameters	Sample Date	(mg/kg)	(mg/kg)	3/24/2015	3/24/2015	3/24/2015	3/24/2015	3/24/2015	3/24/2015	3/24/2015	3/24/2015	3/24/2015	3/24/2015	3/24/2015	3/24/2015	3/24/2015
Metals (mg/kg)																
Arsenic		10	10	9.35	5.85	5.94	7.46	94.3	214	6.36	16.7	5.89	18	6.83	7.36	132

NOTES:

Soil analytical results were compared to Connecticut Department of Energy and Environmental Protection's (CTDEEP) Remediation Standard Regulations (RSRs) esidential Direct Exposure Criteria (RDEC) and the Industrial/Commercial Direct Exposure Criteria (I/C DEC),

Shading indicates an exceedance of the Residential and Indus./Comm. Direct Exposure Criteria

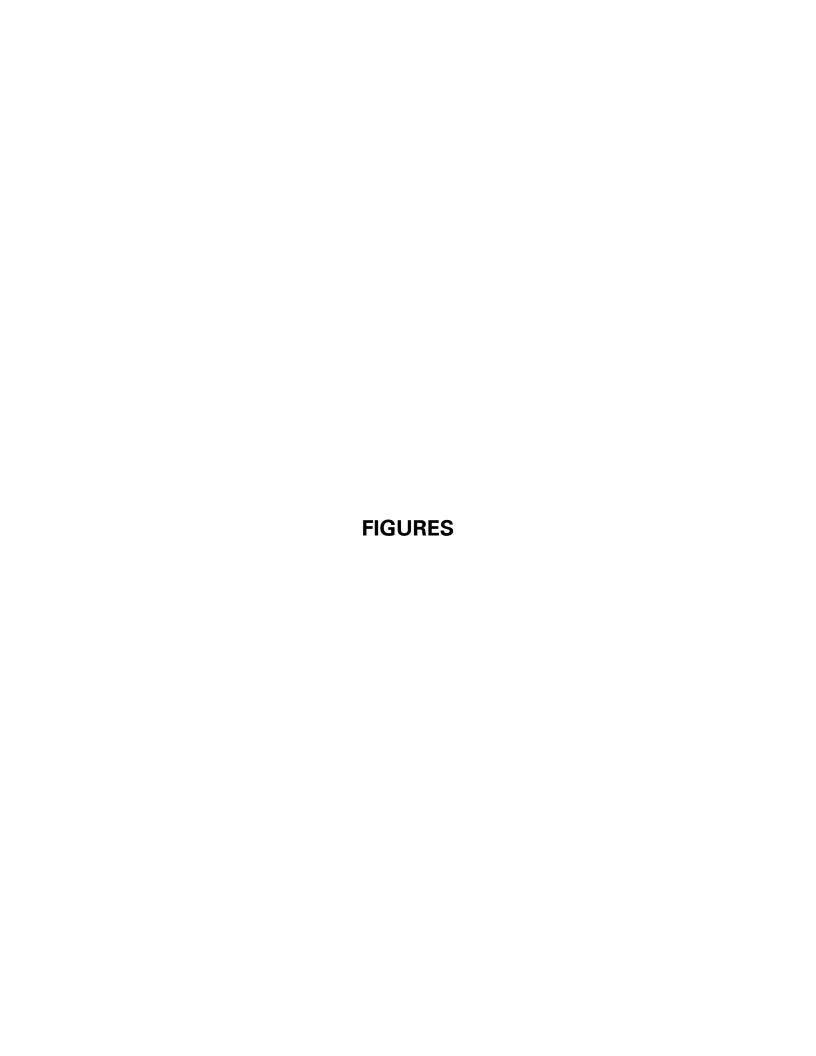
Table 1 Soil Sample Analytical Results William Street Baseball Field Greenwich, Connecticut 140109002

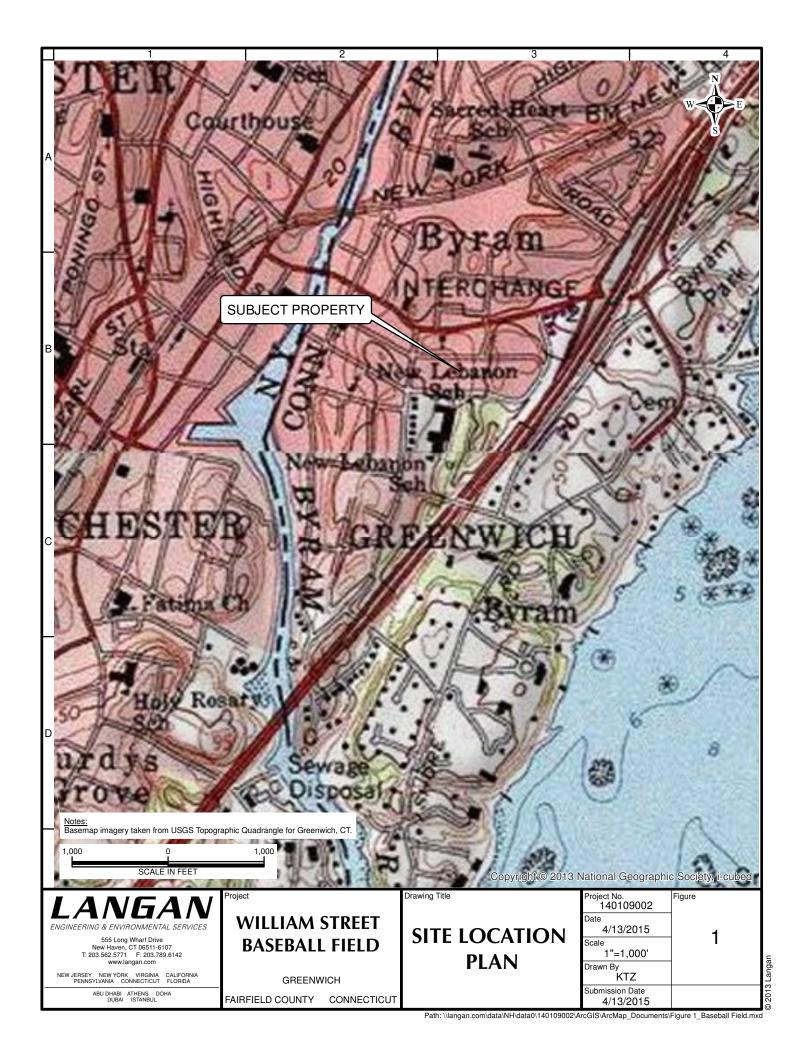
	Sample ID	Residential	Indus./Comm.	DUP-1	HA-14	HA-15	HA-16	HA-17	HA-18	HA-19	HA-20
	Depth of Sample (ft)	Direct Exposure	Direct Exposure	(HA-13)	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
		Criteria	Criteria								
Parameters	Sample Date	(mg/kg)	(mg/kg)	3/24/2015	3/24/2015	3/24/2015	3/24/2015	3/24/2015	3/24/2015	3/24/2015	3/24/2015
Metals (mg/kg)											
Arsenic		10	10	152	6.39	7.51	4.73	8.9	5.22	4.21	6.93

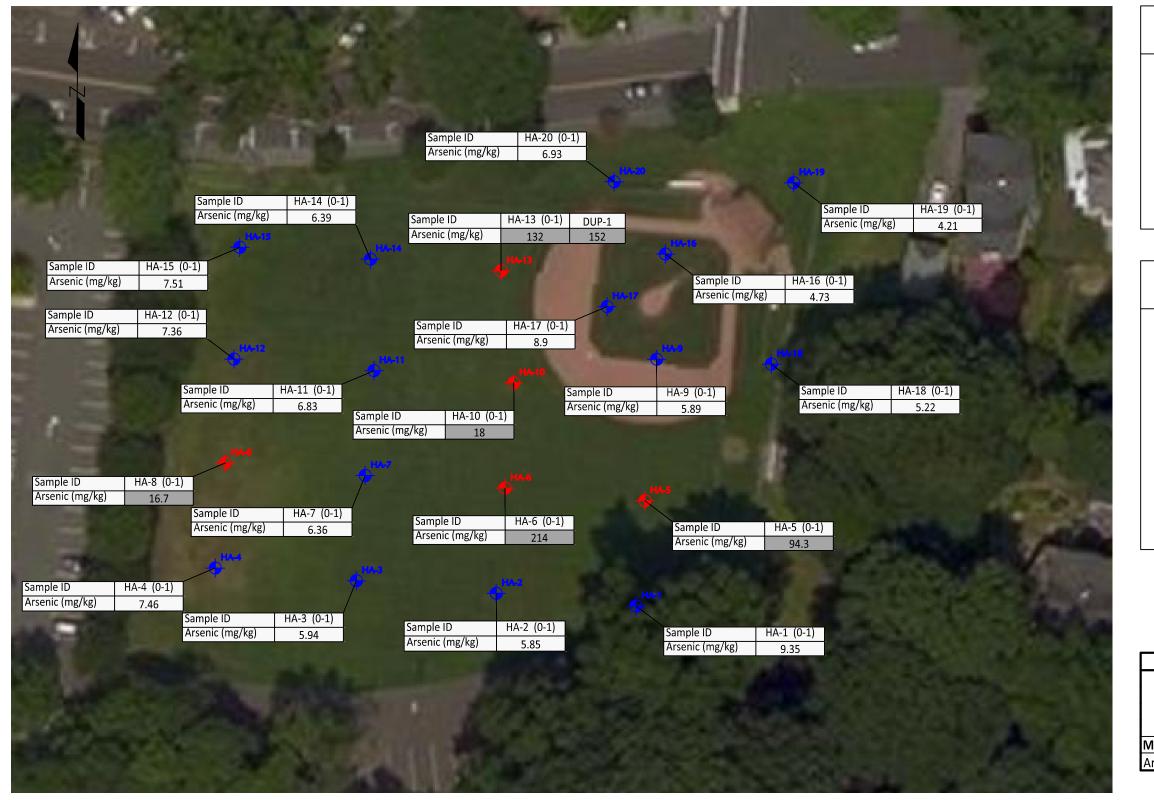
NOTES:

Soil analytical results were compared to Connecticut Department of Energy and Environmental Protection's (CTDEEP) Remediation Standard Regulations (RSRs) esidential Direct Exposure Criteria (RDEC) and the Industrial/Commercial Direct Exposure Criteria (I/C DEC),

Shading indicates an exceedance of the Residential and Indus./Comm. Direct Exposure Criteria







LEGEND



SOIL BORING SAMPLE LOCATION WITH ARSENIC CONCENTRATIONS EXCEEDING DIRECT EXPOSURE CRITERIA

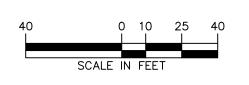


SOIL BORING SAMPLE LOCATION WITH ARSENIC CONCENTRATIONS BELOW CTDEEP RSR CRITERIA

NOTES

- . SOIL SAMPLES WERE COLLECTED BY LANGAN FIELD ENGINEERING ON 3/24/2015. ALL SAMPLES WERE COLLECTED AT A DEPTH OF 0 TO 1 FEET BELOW GROUND SURFACE.
- 2. AERIAL BASEMAP IS PROVIDED THROUGH LANGAN'S ESRI ARCGIS SOFTWARE LICENSING AND ARCGIS ONLINE.
- 3. BORING LOCATIONS ARE LOCATED BASED ON GPS COORDINATES COLLECTED DURING SAMPLING.
- 4. SHADED ARSENIC CONCENTRATIONS INDICATE AN EXCEEDENCE OF CT DEEP DIRECT EXPOSURE CRITERIA.

	CT DEEP REMEDIATION REGULA	ATION STANDARDS				
	Residential	Indus./Comm.				
	Direct Exposure	Direct Exposure				
	Criteria (mg/kg)	Criteria (mg/kg)				
Metals						
Arsenic	10	10				



WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

LANGAN

555 Long Wharf Drive New Haven, CT 06511

T: 203.562.5771 F: 203.789.6142 www.langan.com

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. S.A.
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan of International LLC
Collectively known as Langan

Project WILLIAM STREET BASEBALL FIELD

GREENWICH
FAIRFIELD COUNTY CONNECTICUT

SOIL
ANALYTICAL
RESULTS
MAP

Project N 14010			Figure	No	•	
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Submissio						
4/13,	/2015		Sheet	2	of	2

Drawing Title

ATTACHMENT A

Laboratory Analytical Report



Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive New Haven CT, 06511 Attention: Kyle Zalaski

Report Date: 03/26/2015

Client Project ID: 140109001

York Project (SDG) No.: 15C0756

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 1 of 22

Report Date: 03/26/2015 Client Project ID: 140109001 York Project (SDG) No.: 15C0756

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive New Haven CT, 06511 Attention: Kyle Zalaski

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 March 24, 2015 and listed below. The project was identified as your project: **140109001**.

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.

York Sample ID	Client Sample ID	<u>Matrix</u>	Date Collected	Date Received
15C0756-01	HA-1 0-1	Soil	03/24/2015	03/24/2015
15C0756-02	HA-2 0-1	Soil	03/24/2015	03/24/2015
15C0756-03	HA-3 0-1	Soil	03/24/2015	03/24/2015
15C0756-04	HA-4 0-1	Soil	03/24/2015	03/24/2015
15C0756-05	HA-5 0-1	Soil	03/24/2015	03/24/2015
15C0756-06	HA-6 0-1	Soil	03/24/2015	03/24/2015
15C0756-07	HA-7 0-1	Soil	03/24/2015	03/24/2015
15C0756-08	HA-8 0-1	Soil	03/24/2015	03/24/2015
15C0756-09	HA-9 0-1	Soil	03/24/2015	03/24/2015
15C0756-10	HA-10 0-1	Soil	03/24/2015	03/24/2015
15C0756-11	HA-11 0-1	Soil	03/24/2015	03/24/2015
15C0756-12	HA-12 0-1	Soil	03/24/2015	03/24/2015
15C0756-13	HA-13 0-1	Soil	03/24/2015	03/24/2015
15C0756-14	HA-14 0-1	Soil	03/24/2015	03/24/2015
15C0756-15	HA-15 0-1	Soil	03/24/2015	03/24/2015
15C0756-16	HA-16 0-1	Soil	03/24/2015	03/24/2015
15C0756-17	HA-17 0-1	Soil	03/24/2015	03/24/2015
15C0756-18	HA-18 0-1	Soil	03/24/2015	03/24/2015
15C0756-19	HA-19 0-1	Soil	03/24/2015	03/24/2015
15C0756-20	HA-20 0-1	Soil	03/24/2015	03/24/2015
15C0756-21	DUP-1	Soil	03/24/2015	03/24/2015
15C0756-22	Field Blank	Water	03/24/2015	03/24/2015

General Notes for York Project (SDG) No.: 15C0756

- 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: 03/26/2015

Benjamin Gulizia Laboratory Director





Client Sample ID:	HA-1 0-1	York Sample ID:	15C0756-01
-------------------	----------	-----------------	------------

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15C0756140109001SoilMarch 24, 20159:49 am03/24/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

					Date/Time	Date/Time						
CAS No	0.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic	_	0.35		ma/ka dry	1 32	1 32	1	EPA 6010C	03/25/2015 14:06	03/25/2015 17:19	MW

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

							Reported to	D		Date/Time	Date/Time	
CAS	S No.	Parameter	Result	Flag	Units	LOD/MDL	LOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
solids	% Solids		75.5		%	0.100	0.100	1	SM 2540G	03/24/2015 22:15	03/25/2015 16:13	KK

Sample Information

<u>Client Sample ID:</u> HA-2 0-1 <u>York Sample ID:</u> 15C0756-02

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15C0756
 140109001
 Soil
 March 24, 2015
 9:59 am
 03/24/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: EPA 3050B

						Reported t	0		Date/Time	Date/Time	
CAS No.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2 Ar	senic	E 0E		ma/ka dry	1.22	1.22	1	EPA 6010C	03/25/2015 14:06	03/25/2015 17:36	MW

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

							Reported to	o		Date/Time	Date/Time	
	CAS No.	Parameter	Result	Flag	Units	LOD/MDL	LOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
solid	% Solids		81.3		%	0.100	0.100	1	SM 2540G	03/24/2015 22:15	03/25/2015 16:13	KK

Sample Information

Client Sample ID: HA-3 0-1 York Sample ID: 15C0756-03

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15C0756
 140109001
 Soil
 March 24, 2015 10:08 am
 03/24/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 4 of 22



Client Sample ID:	HA-3 0-1			•						York Sampl	e ID: 150	C0756-03
York Project (SDG) No.	<u>.</u>	Client	Project II	<u>D</u>			Ma	<u>atrix</u>	Colle	ction Date/Time	<u>Date</u>	Received
15C0756		140	109001				S	Soil	March 2	24, 2015 10:08 a	im 0	3/24/2015
Sample Prepared by Method: EPA	A 3050B Parameter	D14	El	Unito		Reported to		Reference	Mathad	Date/Time	Date/Time	Analyst
CAS No. 7440-38-2 Arsenic	rarameter	Result 5.94	Flag	Units mg/kg dry	1.32	1.32	Dilution	EPA 6010C	Method	Prepared 03/25/2015 14:06	Analyzed 03/25/2015 17:41	Analyst MW
Total Solids Sample Prepared by Method: % S	Solids Prep				<u>Log-in</u>	Notes:		<u>Sam</u> j	ple Note	<u>es:</u>		
CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to	Dilution	Reference	Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids % Solids		75.5		%	0.100	0.100	1	SM 2540G		03/24/2015 22:16	03/25/2015 16:17	KK
				Sample	Informa	ation						
Client Sample ID:	HA-4 0-1			•						York Sampl	<u>e ID:</u> 150	C 0756-04
York Project (SDG) No.	<u>.</u>	Client	Project II	<u>D</u>			Ma	atrix_	Colle	ction Date/Time	Date	Received
15C0756		140	109001				S	loil	March 2	24, 2015 10:16 a	ım (3/24/2015
Arsenic by EPA 6010					<u>Log-in</u>	Notes:		<u>Samı</u>	ple Note	<u>es:</u>		
Sample Prepared by Method: EPA CAS No.		Dogult	Flog	Unito		Reported to		Reference	Mathad	Date/Time	Date/Time	Analyst
7440-38-2 Arsenic	Parameter	Result	Flag	Units mg/kg dry	1.26	1.26	Dilution 1	EPA 6010C	Method	O3/25/2015 14:06	Analyzed 03/25/2015 17:46	Analyst MW
Total Solids					Log-in	Notes:		Samı	ple Note	s:		
Sample Prepared by Method: % S	Solids Prep							<u>-</u>				
CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to	Dilution	Reference	Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids % Solids		79.6		%	0.100	0.100	1	SM 2540G		03/24/2015 22:16	03/25/2015 16:17	KK
				Sample	Informa	ation						
Client Sample ID:	HA-5 0-1			•						York Sampl	e ID: 150	C 0756-05
York Project (SDG) No.	<u>.</u>	Client	Project II	<u>D</u>			Ma	<u>atrix</u>	Colle	ction Date/Time	Date	Received
15C0756		140	109001				S	loil	March 2	24, 2015 10:49 a	im 0	3/24/2015

CAS No. Parameter Result Flag Units LOD/MDL LOQ Dilution Reference Method Prepared Analyzed Analyst

Log-in Notes:

Sample Notes:

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Arsenic by EPA 6010
Sample Prepared by Method: EPA 3050B



Client Sample ID:	HA-5 0-1	York Sample ID:	15C0756-05
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Client Project ID Date Received York Project (SDG) No. Matrix Collection Date/Time 15C0756 140109001 Soil March 24, 2015 10:49 am 03/24/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

								Reported t	0		Date/Time	Date/Time	
	CAS No	0.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
744	40-38-2	Arsenic		94.3		mg/kg dry	1.23	1.23	1	EPA 6010C	03/25/2015 14:06	03/25/2015 17:50	MW

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

-	Reported to							Date/Time	Date/Time				
_	CAS No).	Parameter	Result	Flag	Units	LOD/MDL	LOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
S	olids	% Solids		81.6		%	0.100	0.100	1	SM 2540G	03/24/2015 22:16	03/25/2015 16:17	KK

Sample Information

HA-6 0-1 **Client Sample ID:** York Sample ID: 15C0756-06

York Project (SDG) No. Client Project ID Collection Date/Time Date Received Matrix 15C0756 140109001 Soil March 24, 2015 10:40 am 03/24/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

						Reported t	0		Date/Time	Date/Time	
CAS No.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2 Arsenic		214		mo/ko dry	1 21	1 21	1	EPA 6010C	03/25/2015 14:06	03/25/2015 17:55	MW

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

							Reported t	0		Date/Time	Date/Time	
CAS	No.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
solids	% Solids		82.6		%	0.100	0.100	1	SM 2540G	03/24/2015 22:16	03/25/2015 16:17	KK

Sample Information

Client Sample ID: York Sample ID: 15C0756-07 York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 03/24/2015 15C0756 140109001 Soil March 24, 2015 10:32 am

Log-in Notes: Sample Notes: Arsenic by EPA 6010

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166



Client Sample ID: HA-7 0-1 York Sample ID: 15C0756-07

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15C0756
 140109001
 Soil
 March 24, 2015 10:32 am
 03/24/2015

Sample Prepared by Method: EPA 3050B

	6.637							Reported t	0		Date/Time	Date/Time	
	CAS No	0.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
7	7440-38-2	Arsenic		6.36		mg/kg dry	1.24	1.24	1	EPA 6010C	03/25/2015 14:06	03/25/2015 18:12	MW

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

							Reported to	D		Date/Time	Date/Time	
CA	AS No.	Parameter	Result	Flag	Units	LOD/MDL	LOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
solids	% Solids		81.0		%	0.100	0.100	1	SM 2540G	03/24/2015 22:16	03/25/2015 16:17	KK

Sample Information

Client Sample ID: York Sample ID: 15C0756-08

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15C0756
 140109001
 Soil
 March 24, 2015 10:24 am
 03/24/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: EPA 3050B

						Reported t	to		Date/Time	Date/Time	
CAS No.	Parameter	Result	Flag	Units	LOD/MDL	LOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440.20.2 Avenue		14.5		7. 1	1.04	1.06		EDA (010C	02/25/2015 14:06	02/25/2015 19:17	NAW.

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

								Reported to	0		Date/Time	Date/Time	
	CAS No) .	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
so	olids	% Solids		79.1		%	0.100	0.100	1	SM 2540G	03/24/2015 22:16	03/25/2015 16:17	KK

Sample Information

Client Sample ID: HA-9 0-1 York Sample ID: 15C0756-09

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15C0756
 140109001
 Soil
 March 24, 2015 10:58 am
 03/24/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No. Parameter Result Flag Units LOD/MDL LOQ Dilution Reference Method Prepared Analyzed Analyst

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<mark>7-0166</mark>

Page 7 of 22



Client Sample ID:	HA-9 0-1	York Sample ID:	15C0756-09
enent sumple 1D.		TOTA Sample 1D.	1300730-07

Client Project ID Date Received York Project (SDG) No. Matrix Collection Date/Time 15C0756 140109001 Soil March 24, 2015 10:58 am 03/24/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

							Reported t	0		Date/Time	Date/Time	
CAS	S No.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		5.89		mg/kg dry	1.16	1.16	1	EPA 6010C	03/25/2015 14:06	03/25/2015 18:21	MW

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

							Reported to			Date/Time	Date/Time	
CAS	No.	Parameter	Result	Flag	Units	LOD/MDL	LOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
solids	% Solids		86.4		%	0.100	0.100	1	SM 2540G	03/24/2015 22:16	03/25/2015 16:17	KK

Sample Information

HA-10 0-1 **Client Sample ID:** York Sample ID: 15C0756-10

York Project (SDG) No. Client Project ID Collection Date/Time Date Received Matrix 15C0756 140109001 Soil March 24, 2015 11:07 am 03/24/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

						Reported t	0		Date/Time	Date/Time	
CAS No.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2 Arsenic		10.0		ma/ka dry	1.16	1.16	1	EPA 6010C	03/25/2015 14:06	03/25/2015 18:26	MW

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

	Reported to								Date/Time	Date/Time		
CAS I	No.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
solids	% Solids		86.3		%	0.100	0.100	1	SM 2540G	03/24/2015 22:16	03/25/2015 16:17	KK

Sample Information

Client Sample ID: HA-11 0-1 York Sample ID: 15C0756-11 York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 03/24/2015 15C0756 140109001 Soil March 24, 2015 11:21 am

Log-in Notes: Sample Notes: Arsenic by EPA 6010

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 8 of 22



 Client Sample ID:
 HA-11 0-1
 York Sample ID:
 15C0756-11

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15C0756
 140109001
 Soil
 March 24, 2015 11:21 am
 03/24/2015

Sample Prepared by Method: EPA 3050B

								Reported t	0		Date/Time	Date/Time	
	CAS No	0.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
7	7440-38-2	Arsenic		6.83		mg/kg dry	1.22	1.22	1	EPA 6010C	03/25/2015 14:06	03/25/2015 18:31	MW

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

							Reported to	D		Date/Time	Date/Time	
CA	S No.	Parameter	Result	Flag	Units	LOD/MDL	LOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
solids	% Solids		82.3		%	0.100	0.100	1	SM 2540G	03/24/2015 22:16	03/25/2015 16:17	KK

Sample Information

Client Sample ID: HA-12 0-1 York Sample ID: 15C0756-12

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15C0756
 140109001
 Soil
 March 24, 2015 11:30 am
 03/24/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Dogult	Flag	Units		Reported t		Reference Method	Date/Time	Date/Time	Analyst
CAS No.	Parameter	Result	riag	Units	LOD/MDL	LOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440.39.2 Arconia		# 2 <i>C</i>			1.21	1.01	,	EDA (010C	02/25/2015 14:06	02/25/2015 19:26	MW

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

				Reported to Date/Time									
	CAS No	0.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
so	olids	% Solids		82.7		%	0.100	0.100	1	SM 2540G	03/24/2015 22:16	03/25/2015 16:17	KK

Sample Information

<u>Client Sample ID:</u> HA-13 0-1 <u>York Sample ID:</u> 15C0756-13

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15C0756
 140109001
 Soil
 March 24, 2015
 11:56 am
 03/24/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No. Parameter Result Flag Units LOD/MDL LOQ Dilution Reference Method Prepared Analyzed Analyst

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 9 of 22



Client Sample ID:	HA-13 0-1	York Sample ID:	15C0756-13

Client Project ID Date Received York Project (SDG) No. Matrix Collection Date/Time 15C0756 140109001 Soil March 24, 2015 11:56 am 03/24/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

								Reported t	0	Date/Time	Date/Time		
	CAS No).	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
74	40-38-2	Arsenic	_	132		mg/kg dry	1.26	1.26	1	EPA 6010C	03/25/2015 14:06	03/25/2015 18:40	MW

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

							Reported to	0		Date/Time	Date/Time	
CAS	No.	Parameter	Result	Flag	Units	LOD/MDL	LOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
solids	% Solids		79.6		%	0.100	0.100	1	SM 2540G	03/24/2015 22:16	03/25/2015 16:17	KK

Sample Information

HA-14 0-1 **Client Sample ID:** York Sample ID: 15C0756-14

York Project (SDG) No. Client Project ID Collection Date/Time Date Received Matrix 15C0756 140109001 Soil March 24, 2015 11:46 am 03/24/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

						Reported t	o		Date/Time	Date/Time		
CAS No.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst	
7440-38-2 Arsenic		6.30		ma/ka dry	1 21	1 21	1	EPA 6010C	03/25/2015 14:06	03/25/2015 18:45	MW	

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

	Reported to							Date/Time	Date/Time			
CAS No.		Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
solids	% Solids		82.6		%	0.100	0.100	1	SM 2540G	03/24/2015 22:16	03/25/2015 16:17	KK

Sample Information

Client Sample ID: HA-15 0-1 York Sample ID: 15C0756-15 York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 03/24/2015 15C0756 140109001 Soil March 24, 2015 11:38 am

Log-in Notes: Sample Notes: Arsenic by EPA 6010

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166



Sample Information HA-15 0-1 **Client Sample ID:** York Sample ID: 15C0756-15 York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 140109001 March 24, 2015 11:38 am 03/24/2015 15C0756 Soil Sample Prepared by Method: EPA 3050B Date/Time Date/Time Reported to Reference Method CAS No. Parameter Result Flag Units LOD/MDL Dilution Prepared Analyzed Analyst LOQ 7440-38-2 Arsenic 7.51 mg/kg dry 1.21 EPA 6010C 03/25/2015 14:06 03/25/2015 18:49 MW **Log-in Notes: Sample Notes: Total Solids** Sample Prepared by Method: % Solids Prep Date/Time Date/Time Reported to Dilution CAS No. Parameter Result Flag Units LOD/MDL Reference Method Prepared Analyzed Analyst ĹOQ 03/24/2015 22:16 03/25/2015 16:17 % Solids % SM 2540G solids KK 82.6 0.100 0.100 **Sample Information** HA-16 0-1 **Client Sample ID:** York Sample ID: 15C0756-16 Client Project ID York Project (SDG) No. Matrix Collection Date/Time Date Received 15C0756 140109001 Soil March 24, 2015 12:07 pm 03/24/2015 **Log-in Notes:** Sample Notes: **Arsenic by EPA 6010** Sample Prepared by Method: EPA 3050B Date/Time Date/Time Reported to CAS No. **Parameter** Result Flag Units Dilution Reference Method Prepared Analyzed Analyst LOD/MDL LOO 03/25/2015 14:06 03/25/2015 18:54 7440-38-2 Arsenic EPA 6010C 4.73 MW mg/kg dry 1.15 **Log-in Notes: Sample Notes: Total Solids** Sample Prepared by Method: % Solids Prep Date/Time Date/Time Reference Method CAS No. Parameter Result Flag Units Dilution Analyzed LOD/MDL Prepared Analyst LOO solids % Solids 87.3 % SM 2540G 03/24/2015 22:16 03/25/2015 16:17 **Sample Information** York Sample ID: Client Sample ID: HA-17 0-1 15C0756-17 York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 15C0756 140109001 Soil March 24, 2015 12:16 pm 03/24/2015 **Log-in Notes: Sample Notes:** Arsenic by EPA 6010

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Reported to

Dilution

LOD/MDL LOQ

Sample Prepared by Method: EPA 3050B

Parameter

Result

Flag

Units

CAS No.

Page 11 of 22

Analyst

Date/Time

Analyzed

Date/Time

Prepared

Reference Method



Client Sample ID:	HA-17 0-1	York Sample ID:	15C0756-17
Client Sample ID:		York Sample ID:	15C0756

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15C0756
 140109001
 Soil
 March 24, 2015 12:16 pm
 03/24/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

								Reported t	Date/Time Date/Time				
	CAS No	0.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
	7440-38-2	Arsenic		8 90		mø/kø dry	1 14	1 14	1	EPA 6010C	03/25/2015 14:06	03/25/2015 19:11	MW

<u>Total Solids</u> <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS	No.	Parameter	Result	Reported to Flag Units LOD/MDL LOO Dilution Reference Method						Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		87.5		%	0.100	0.100	1	SM 2540G	03/24/2015 22:16	03/25/2015 16:17	KK

Sample Information

<u>Client Sample ID:</u> HA-18 0-1 <u>York Sample ID:</u> 15C0756-18

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15C0756
 140109001
 Soil
 March 24, 2015 12:25 pm
 03/24/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

						Reported t	o		Date/Time	Date/Time		
CAS No.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst	
7440-38-2 Arsenic		5.22		ma/ka dry	1.24	1.24	1	EPA 6010C	03/25/2015 14:06	03/25/2015 19:16	MW	

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

							Reported t	0		Date/Time	Date/Time	-
CAS	No.	Parameter	Result	Flag	Units	LOD/MDL	ĹOQ	Dilution	Reference Method	Prepared	Analyzed	Analyst
solids	% Solids		80.9		%	0.100	0.100	1	SM 2540G	03/24/2015 22:16	03/25/2015 16:17	KK

Sample Information

 Client Sample ID:
 HA-19 0-1
 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15C0756
 140109001
 Soil
 March 24, 2015 12:38 pm
 03/24/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 12 of 22



HA-19 0-1 **Client Sample ID:** York Sample ID: 15C0756-19 York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 140109001 March 24, 2015 12:38 pm 03/24/2015 15C0756 Soil Sample Prepared by Method: EPA 3050B Date/Time Date/Time Reported to Reference Method CAS No. Parameter Result Flag Units Dilution Prepared Analyzed Analyst LOD/MDL LOQ 7440-38-2 Arsenic 4.21 mg/kg dry EPA 6010C 03/25/2015 14:06 03/25/2015 19:21 MW **Log-in Notes: Sample Notes: Total Solids** Sample Prepared by Method: % Solids Prep Date/Time Date/Time Reported to Dilution CAS No. Parameter Result Flag Units LOD/MDL Reference Method Prepared Analyzed Analyst ĹOQ 03/24/2015 22:16 03/25/2015 16:17 % Solids % SM 2540G solids 78.7 KK 0.100 0.100 **Sample Information** HA-20 0-1 **Client Sample ID:** York Sample ID: 15C0756-20 Client Project ID York Project (SDG) No. Matrix Collection Date/Time Date Received 15C0756 140109001 Soil March 24, 2015 12:48 pm 03/24/2015 **Log-in Notes:** Sample Notes: **Arsenic by EPA 6010** Sample Prepared by Method: EPA 3050B Date/Time Date/Time Reported to CAS No. **Parameter** Result Flag Units Dilution Reference Method Prepared Analyzed Analyst LOD/MDL LOO 03/25/2015 14:06 03/25/2015 19:25 7440-38-2 Arsenic EPA 6010C 6.93 MW mg/kg dry 1.22 **Log-in Notes: Sample Notes: Total Solids** Sample Prepared by Method: % Solids Prep Date/Time Date/Time Reference Method CAS No. Parameter Result Flag Units Dilution Analyzed LOD/MDL Prepared Analyst LOO solids % Solids 81.9 % SM 2540G 03/24/2015 22:16 03/25/2015 16:17 **Sample Information** Client Sample ID: DUP-1 York Sample ID: 15C0756-21 York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 15C0756 140109001 Soil March 24, 2015 12:00 am 03/24/2015

Reported to Result Flag Units LOD/MDL LOQ Dilution Reference Method Prepared Analyzed Analyst

Log-in Notes:

Sample Notes:

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Arsenic by EPA 6010
Sample Prepared by Method: EPA 3050B

Page 13 of 22



Client Sample ID: York Sample ID: 15C0756-21

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15C0756
 140109001
 Soil
 March 24, 2015
 12:00 am
 03/24/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time Reported to CAS No. Parameter Result Flag Units Dilution Reference Method Prepared Analyzed Analyst LOD/MDL LOQ 03/25/2015 14:07 03/25/2015 20:17 7440-38-2 Arsenic 152 EPA 6010C mg/kg dry 1.27 1.27 MW

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time Reported to Flag Result Units Reference Method Analyzed CAS No. Parameter Dilution Analyst Prepared LOD/MDL LOQ % Solids solids 79.1 03/24/2015 22:16 03/25/2015 16:17

Sample Information

Client Sample ID: Field Blank York Sample ID: 15C0756-22

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15C0756140109001WaterMarch 24, 2015 1:00 pm03/24/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3010A

Date/Time Date/Time Reported to LOQ CAS No. **Parameter** Result Flag Units LOD/MDL Dilution Reference Method Prepared Analyzed Analyst 03/25/2015 14:15 EPA 6010C 03/26/2015 01:48 7440-38-2 Arsenic ND mg/L 0.00400 0.00400 MW

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Page 14 of 22



Analytical Batch Summary

Batch ID: BC50936	Preparation Method:	% Solids Prep	Prepared By:	KK
YORK Sample ID	Client Sample ID	Preparation Date		
15C0756-01	HA-1 0-1	03/24/15		
15C0756-02	HA-2 0-1	03/24/15		
BC50936-DUP1	Duplicate	03/24/15		
Batch ID: BC50937	Preparation Method:	% Solids Prep	Prepared By:	KK
YORK Sample ID	Client Sample ID	Preparation Date		
15C0756-03	HA-3 0-1	03/24/15		
15C0756-04	HA-4 0-1	03/24/15		
15C0756-05	HA-5 0-1	03/24/15		
15C0756-06	HA-6 0-1	03/24/15		
15C0756-07	HA-7 0-1	03/24/15		
15C0756-08	HA-8 0-1	03/24/15		
15C0756-09	HA-9 0-1	03/24/15		
15C0756-10	HA-10 0-1	03/24/15		
15C0756-11	HA-11 0-1	03/24/15		
15C0756-12	HA-12 0-1	03/24/15		
15C0756-13	HA-13 0-1	03/24/15		
15C0756-14	HA-14 0-1	03/24/15		
15C0756-15	HA-15 0-1	03/24/15		
15C0756-16	HA-16 0-1	03/24/15		
15C0756-17	HA-17 0-1	03/24/15		
15C0756-18	HA-18 0-1	03/24/15		
15C0756-19	HA-19 0-1	03/24/15		
15C0756-20	HA-20 0-1	03/24/15		
15C0756-21	DUP-1	03/24/15		
Batch ID: BC50979	Preparation Method:	EPA 3050B	Prepared By:	MW
YORK Sample ID	Client Sample ID	Preparation Date		
15C0756-01	HA-1 0-1	03/25/15		
15C0756-02	HA-2 0-1	03/25/15		
15C0756-03	HA-3 0-1	03/25/15		
15C0756-04	HA-4 0-1	03/25/15		
15C0756-05	HA-5 0-1	03/25/15		
15C0756-06	HA-6 0-1	03/25/15		
15C0756-07	HA-7 0-1	03/25/15		
15C0756-08	HA-8 0-1	03/25/15		
15C0756-09	HA-9 0-1	03/25/15		
15C0756-10	HA-10 0-1	03/25/15		
15C0756-11	HA-11 0-1	03/25/15		
15C0756-12	HA-12 0-1	03/25/15		
15C0756-13	HA-13 0-1	03/25/15		
1500756 14	11A-13 U-1	03/23/13		

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HA-14 0-1

HA-15 0-1

03/25/15

03/25/15

15C0756-14

15C0756-15



HA-16 0-1	03/25/15
HA-17 0-1	03/25/15
HA-18 0-1	03/25/15
HA-19 0-1	03/25/15
HA-20 0-1	03/25/15
Blank	03/25/15
Duplicate	03/25/15
Matrix Spike	03/25/15
Reference	03/25/15
	HA-16 0-1 HA-17 0-1 HA-18 0-1 HA-19 0-1 HA-20 0-1 Blank Duplicate Matrix Spike Reference

Batch ID: BC50980 Preparation Method: EPA 3050B Prepared By: MW

 YORK Sample ID
 Client Sample ID
 Preparation Date

 15C0756-21
 DUP-1
 03/25/15

 BC50980-BLK1
 Blank
 03/25/15

 BC50980-SRM1
 Reference
 03/25/15

Batch ID: BC50984 Preparation Method: EPA 3010A Prepared By: MW

YORK Sample ID	Client Sample ID	Preparation Date
15C0756-22	Field Blank	03/25/15
BC50984-BLK1	Blank	03/25/15
BC50984-SRM1	Reference	03/25/15

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

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag
Batch BC50979 - EPA 3050B											
Blank (BC50979-BLK1)							Prep	ared & Anal	yzed: 03/25/	/2015	
Arsenic	ND	1.00	mg/kg wet								
Duplicate (BC50979-DUP1)	*Source sample: 15	C0756-01 (F	HA-1 0-1)				Prep	ared & Anal	yzed: 03/25/	/2015	
Arsenic	9.05	1.32	mg/kg dry		9.35				3.27	35	
Matrix Spike (BC50979-MS1)	*Source sample: 15	C0756-01 (H	HA-1 0-1)				Prep	ared & Anal	yzed: 03/25/	/2015	
Arsenic	271	1.32	mg/kg dry	265	9.35	98.9	75-125				
Reference (BC50979-SRM1)							Prep	ared & Anal	yzed: 03/25/	/2015	
Arsenic	155	1.00	mg/kg wet	151		103	70.9-130				
Batch BC50980 - EPA 3050B											
Blank (BC50980-BLK1)							Prep	ared & Anal	yzed: 03/25/	/2015	
Arsenic	ND	1.00	mg/kg wet								
Reference (BC50980-SRM1)							Prep	ared & Anal	yzed: 03/25/	/2015	
Arsenic	149	1.00	mg/kg wet	151		98.9	70.9-130				
Batch BC50984 - EPA 3010A											
Blank (BC50984-BLK1)							Prep	ared: 03/25/2	2015 Analyz	zed: 03/26/2	2015
Arsenic	ND	0.00400	mg/L								
Reference (BC50984-SRM1)							Prep	ared: 03/25/2	2015 Analyz	zed: 03/26/2	2015
Arsenic	0.653	0.00400	mg/L	0.681		95.8	84.4-114				

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Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag

Batch BC50936 - % Solids Prep

Duplicate (BC50936-DUP1)	*Source sample: 15C0756-02 (HA-2 0-1)		Prepared: 03/24/2015 Analyzed: 03/25/2015
% Solids	80.9 0.100 %	81.3	0.522 20

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Page 18 of 22



Notes and Definitions

M-ACCB Analyte in CCB. Run is bracketed by acceptable CCBs.

* 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

High Bias

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 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.

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YORK ANALYTICAL LABORATORIES STRATFORD, CT 06615 120 RESEARCH DR.

Field Chain-of-Custody Record

Electronic Data Deliverables (EDD) This document serves as your written authorization to York to proceed with the analyses requested and your signature hinds wou to Vorbes can a signature hinds when the vortex can are a s Compare to the following Regs. (please fill in): Other York Regulatory Comparison NJDEP SRP HazSite EDD crosel asks CT RCP Package X CTRCP DQA/DUE Pkg. Description(s) Report Type Summary w/ QA Summary. Container NY ASP B Package NY ASP A Package NJDEP Red. Deliv. Excel Spreadsheet Summary Report NYSDEC EQuIS EZ-EDD (EQuIS) giass GIS/KEY (std) Simple Excel EQuIS (std) Choose Analyses Needed from the Menu Above and Enter Below Turn-Around Time Standard(5-7 Days) Heterotrophs **Ignitability** Flash Point Sieve Anal TCL Oggrics Reactivity Part 360-Expanses BTU/Ib. NYSDECsewer Asbestos RUSH - Three Day Misc. Org. Full Lists Misc. RUSH - Same Day RUSH - Four Day RUSH - Two Day Part 360 Baseline TOX Part 360-Routine Full App. IX Part 360 Equated NYCDEP Sewer TAL MetCN Full TCLP NY 310-13 TPH DRO Air TO14A Air STARS TPH 1664 Air TO15 CTETPH TCLP Herb SPLPorTCLP Air VPH Indiv. Metals | Air TICs Methane Purchase Order No. YOUR Project ID TAGM list NJDEP list TCLP Pest Dissolved Semi-Vols, Pest/PCB/Herld Metals CT15 list 140109001 LIST Below PP13 list Samples from: CT X NY RCRA8 CT RCP list SPLP or TCLP Total TAL Chlordane Site Spec. App.IX list SPLP \article TCLP BNA 608 Pest 8270 er 625 8082PCB 8151Herb App. IX 8081Pest CT RCP SPIPOTICIP 608 PCB NJDEP list STARS list Acids Only TAGM list BN Only PAH list TCL list App. IX Suffolk Co. Halog.only NJDEP list Nassau Co. Oxygenates TCLP list Site Spec. Ketones Invoice To: CT RCP list 524.2 Arom. only 502.2 Argenia Volatiles clock will not begin until any questions by York are resolved. STARS list TAGM list Print Clearly and Legibly. All Information must be complete. 8260 Full TCLlist E-Mail Address: RW JULS TRUM & Kingan was E-Mail Address: K Zala SKi @ Langen W E-Mail Address: Samples will NOT be logged in and the turn-around time 624 DW - drinking water Company: Other - specify(oil, etc.) Phone No. Attention: Date/Time Sampled | Sample Matrix GW - groundwater Matrix Codes WW - wastewater Air-A - ambient air Air-SV - soil vapor Report To: Sim 3/4/15 O949 7501 1040 9101 5401 1058 9001 Samples Collected/Authorized By (Signature) Fax (203) 357-0166 Phone No. (203) 325-1371 Company: Lungan Engineering Company:
Address: 550 Long Wharf DC. Address: Attention: Zalasti New Henry, XT 00511 Contact Person: Ryon Wein Stron Phone No. 203 - 502 - 5771 Sample Identification YOUR Information

RLs must meet CTOEEP RSRS

Temperature on Receipt

Samples Received By 3 - 24 - 15 440

Date/Time

Samples Received in LAB by

Date/Time

Samples Relinquished By

Field Filtered

Instructions Special

Ascorbic Acid MeOH

Check those Applicable

Preservation

1107

MA-10 0-1

Comments

1-0 1-0

14-8 P-47

1-0 10

HA-7

7-8H

1-0

HA-Z

0 10

4-4X HA-5

10

1-8H



YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
5TRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

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Page 2 of 3

ur York Project No. 15CO 756

Renort Tyne	Summary Report Summary w/ QA Summary CT RCP Package X	CTRCP DQA/DUE Pkg NY ASP A Package NY ASP B Package	NJDEP Red. Deliv. Electronic Data Deliverables (EDD)	Simple Excel NYSDEC EQuIS EQUIS (std)	EZ-EUU (EQuis) NJDEP SRP HazSite EDD GIS/KEY (std) Other & AC	York Regulatory Comparison Excel Spreadsheet Compare to the following Regs. (please fill in):	Conta	Description(s)	guss								->		lemperature on Receipt	Date/Time ATO S. 4°C	Time
Turn-Around Time		RUSH - Two Day RUSH - Three Day RISH - Four Day		Full Lists Misc. Pri.Poll. Corrosivity I	Full TCLP Flash Point Full App. IX Sieve Anal. Part 360-Rouine Heterotrophs	Part 560-fermine BTU/lb. Part 560-fermine BTU/lb. Part 560-fermine Aquatic Tox. NVGDE-Score Advertor NVGDE-Score Advertor AvtSDE-Score Advertor		_										H ₂ SO ₄ NaOH		7	Samples Received in LAB by Date/Time
YOUR Project ID	H0109001	Purchase Order No.	Samples from: CT X NY NJ	Semi-Vols, PostPCBHerd Metals Misc. Org. 8270 σr 625 8082PCB RCRA8 TPH GRO STARS list 8081Pest PP13 list TPH DRO BN Only 81 51 Herb TAT CT ETTOL	ly CT RCP CT15 list App. LX TAGM list st Site Spec. NJDEP list ist SPP PATCTP TAGE	TCLP Pest Dissolved TCLP Herb SPLPGTCLP Chlordane Indix.Metak 608 Pest IST Belox	UBlist SPIPOTCIP 608 PCB Helium TAGM Silica Choose Analyses Needed from the Monn Above and Enfort Bolome				E							HCI MeOH HNO.	3/21/15 14:40	Date/Time	Date/Time
Invoice To:	my: Same	No.	on: Address:	Volatiles 8260 full TICs 624 Site Spec. STARS list Nassau Co.	BTEX Suffolk Co. MTBE Ketones TCL list Oxygenates TAGM list TCLP list	CTRCP list 524.2 Arom. only 502.2 Halog.only NJDEP list App.IX list SPLPGTCLP	802	Assessed	-								>	4°C Frozen ZnAc		Samples Relinquished By	Samples Relinquished By
t To:	Company: Address:	Phone No.	Ki @ Lungunum E-Mai	nust be compler urn-around tin	Matrix Codes S - soil Other - specify(oil, etc.)	WW - wastewafer GW - groundwater DW - drinking water Air-A - ambient air	1	S									>	Preservation Check those Applicable	Special Instructions	Field Filtered	
Report To:	Company: Address:	Phone No.	an E-Mail Address: Kzalas	All Information	le lu	d By (Signature)	Date/Time Sampled	3/4/15 [121	1130	1156	1146	1138	1507	0121	(22)	1538	1248		KSRS		
YOUR Information	Company: Lungan Engineering Address: 555 Long Wheel Dive	crson: [Nos -562	E-Mail Address: R. W. in you Clangen and E-Mail Address: Kapla Sci Clangen and E-Mail Address:	Samples will NOT be logged in and the turn-around time 624 clock will not begin until am angetions by Volt and states I STARS I	40,3	Samples Colledted Authorized By (Signature) Ky Le Zulaski Name (printed)	Sample Identification	Kg-11 0-1	HA-12 0-1	49-13 0-1	HA-14 0-1	HA-15 0-1	MA-16 0-1	1-0 E1-8H	HA-18 0-1	1-0 61-64	HA-20 0-1	Comments	Klis must meet CTDEEP KSR,		



YORK ANALYTICAL LABORATORIES STRATFORD, CT 06615 FAX (203) 357-0166 120 RESEARCH DR. (203) 325-1371

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your

signature binds you to York's Std. Terms & Conditions.

York Project No. 15C0756 Page 3 of 3

i.	Summary Report Summary W/ QA Summary	CT RCP Package X CTRCP DQA/DUE Pkg NY ASP A Package NY ASP B Package	NJDEP Red. Deliv. Electronic Data Deliverables (EDD)	Simple Excel NYSDEC EQuIS EQuIS (std) EZ-EDD (EQuIS)	NJDEP SRP HazSite EDD GIS/KEY (std) Other of V York Regulatory Comparison Excel Spreadsheet Compare to the following Regs. (please fill in):	Container	Description(s)	1500 int			F	on Receipt on Receipt	Date/ Time
T. I. A. C. I.	RUSH - Same Day RUSH - Next Day	RUSH - Two Day RUSH - Three Day RUSH - Four Day	Standard(5-7 Days)	Drg. Full Lists Misc. O Pri.Poll. Corrosivity O TCL Ogaries Reactivity H TAL MetCN Ignitability	Full I/CLP Flash Point Full App, IX Sieve Anal. Part 360-Roseine Heterotrophis Part 360-Roseine TOX Part 360-Roseine TOX Part 360-Roseine BTU/lh. Sulfour Communication Aquatic Tox. NYCO-PS-sone TOC	TAGM Silica					H ₂ SO← NaOH	3	Samples preceived in LAB by Date
YOUR Project ID	140104001	Purchase Order No.	Samples from: CTX NY NJ	16. PesirCixHert Metals 5 8082PCB RCRA8 11 8081Pest PP13 list 8151Perb TAL	App. IX Site Spec. SPIP OTCIP TCLP Pest TCLP Herb Chlordane	led from the Me					HCI MeOH HNO3	324/IS 14-40 Date/Time	Date/ IIII le
Invoice To:		No. On:		8260 full TICs 624 Site Spec. STARS list Nassau Co. BTEX Suffolk Co.	MTBE Ketones TCLlist Oxygenates TAGM list TCLP list CT RCP list 524.2 Arom. only 502.2 Halogonly NJDEP list Am JX list SPP PATITY IS	8021B list SPLPG Choose Analyses	Arsente	Arsenic			4°C Frozen H	Samples Refliquished By Samples Belingished By	
. To:	SAME Company:	Phone No.	K. Cleman wan E-Mai	rust be complet urn-around tin ork are resolve	Matrix Codes S- soil Other - specify(oii, etc.) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air	Sample Matrix	S	\$			Preservation Check those Applicable	Special Instructions Field Filtered Lab to Filter	
Report To:	Company: SA	Phone No.	E-Mail Address: KEok	4ll Information 1 ed in and the 1 ty questions by I	Columniated By (Signature)	Date/Time Sampled	3/4/15 00:00	3/24/12 13:00				CA3	
YOUR Information	Company: Langen Engineering Address: 555 Long What DAVE	New Hanen, CT 06511 Phone No. 223-562-5771 Contact Person: Ryon Worldstran	E-Mail Address: L. W. L. L. Stron () Langen and E-Mail Address: K. L. L. Stron and E-Mail Address:	Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.	Samples Collected Authorized By (Signature) Kyle Fulus Ki	Sample Identification	1-20Q	FIELD BLANK			Comments	Als imost neet cropped as as	

ATTACHMENT B

Geophysical Engineering Survey Report

GEOPHYSICAL ENGINEERING SURVEY REPORT

Commercial Property
25 Mead Avenue
Greenwich, Connecticut 06830

NOVA PROJECT NUMBER

15-665

DATED

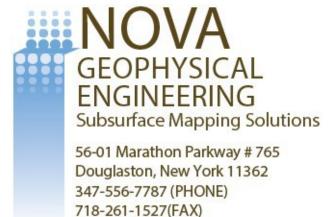
June 22, 2015

PREPARED FOR:

LANGAN

Long Wharf Maritime Center 555 Long Wharf Drive New Haven, CT 06511-6107

PREPARED BY:



www.nova-gsi.com

NOVA GEOPHYSICAL SERVICES

SUBSURFACE MAPPING SOLUTIONS

56-01 Marathon Parkway, #765, Douglaston, New York 11362 Ph. 347-556-7787 Fax. 718-261-1527 www.nova-gsi.com

June 22, 2015

Ryan J Wohlstrom Project Engineer Direct: 203.784.3069 Mobile: 203.464.2731

LANGAN

Long Wharf Maritime Center 555 Long Wharf Drive New Haven, CT 06511-6107

> Re: Geophysical Engineering Survey (GES) Report Commercial Property 25 Mead Avenue

Greenwich, Connecticut 06830

Dear Ms. Rice:

Nova Geophysical Services (NOVA) is pleased to provide findings of the geophysical engineering survey (GES) at the above referenced project site: Commercial Property, 25 Mead Avenue, Greenwich, Connecticut (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 Utility/cable locator surveys at the site. The purpose of this survey is to locate and identify the existing natural gas line and other substructures and to clear and mark proposed environmental boring areas on June 18, 2015.

The equipment selected for this investigation was Noggin's 250 MHz ground penetrating radar (GPR) shielded antenna and a 3M Dynatel Cable/Utility Locator.

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 (Noggin). 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.



GEOPHYSICAL METHODS

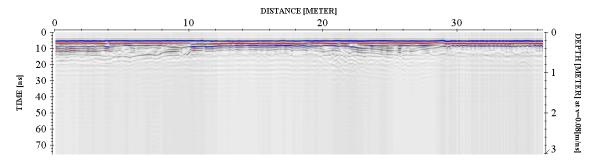
The project site was screened using the GPR to search the areas of interest and inspected for reflections, which could be indicative of major anomalies and substructures. Utility locations were confirmed using the Dynatel Cable/Utility Locator.

GPR data profiles were collected for the areas of the Site specified by the client. The surveyed areas consisted of grass surfaces.

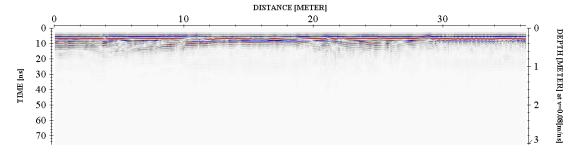
DATA PROCESSING

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

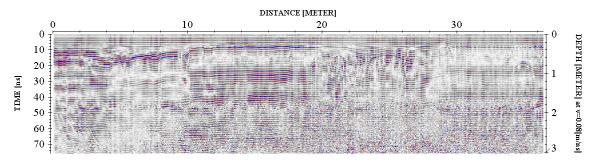


Step 2. Remove instrument noise (dewow)

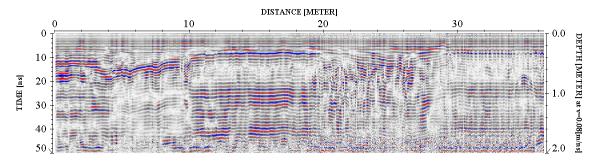




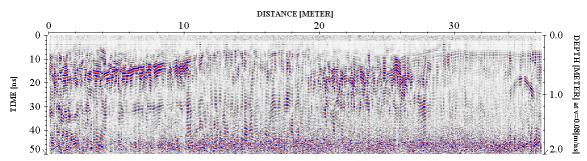
Step 3. Correct for attenuation losses (energy decay function)



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.



GEOPHYSICALENGINEERINGSURVEY/GESREPORT

Commercial Property 25 Mead Avenue

Greenwich. Connecticut 06830

PHYSICAL SETTINGS

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

The weather: Overcast

Temp: 65 Degrees (F).

Surface: Grass surfaces

Geophysical Noise Level (GNL): Geophysical Noise Level (GNL) was medium to high at the site. The noise was a result of the fill material below the surface.

RESULTS

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

- GES survey identified scattered anomalies located throughout the project site. Based on their rates and proximity, these anomalies were inconsistent with any USTs.
- A gas line was located on the site. This is indicated both on site and on the survey map.
- 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 Sweet Edit

Levent Eskicakit, P.G., E.P.

Project Engineer

Attachments:

Figure 1 Site Location Map Geophysical Survey Plan Geophysical Images







200 ft.



SITE: Comm

Commercial Property 25 Mead Avenue

Greenwich, Connecticut 06830

SCALE: See Map



1- All anomalies were marked in the field.

NOVA Geophysical Services

Subsurface Mapping Solutions 56-01 Marathon Parkway, PO Box 765 Douglaston, New York11362 Phone (347) 556-7787 * Fax (718) 261-1527 www.nova-gsi.com

GEOPHYSICAL SURVEY PLAN

SITE : Commercial Property 25 Mead Avenue

Greenwich, Connecticut 06830

CLIENT: LANGAN DATE: June 18, 2015 Scale See Map

INFORMATION

Survey Area

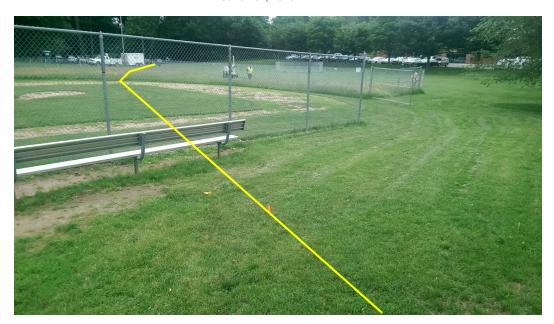
Gas Line



50 ft.

GEOPHYSICAL IMAGES
Commercial Property 25 Mead Avenue

Greenwich, Connecticut 06830 June 18th, 2015





ATTACHMENT A

Laboratory Analytical Results



Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive New Haven CT, 06511

Attention: Ryan Wohlstrom

Report Date: 06/03/2015

Client Project ID: 140109003

York Project (SDG) No.: 15E0072

Revision No. 3.0

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 1 of 49

Report Date: 06/03/2015 Client Project ID: 140109003 York Project (SDG) No.: 15E0072

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive New Haven CT, 06511 Attention: Ryan Wohlstrom

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 May 01, 2015 and listed below. The project was identified as your project: **140109003**.

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.

York Sample ID	Client Sample ID	<u>Matrix</u>	Date Collected	Date Received
15E0072-01	FIELD BLANK-5012015	Water	05/01/2015	05/01/2015
15E0072-02	Dup-1	Soil	04/30/2015	05/01/2015
15E0072-03	Dup-2	Soil	04/30/2015	05/01/2015
15E0072-04	Dup-3	Soil	04/30/2015	05/01/2015
15E0072-09	HA-5-S2 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-17	HA-6-W1 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-22	HA-10-W2 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-23	HA-10-W2 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-24	HA-22-W2 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-27	HA-22-W1 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-28	HA-22-W1 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-30	HA-13-E2 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-31	HA-13-E2 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-32	HA-13-W2 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-33	HA-13-W2 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-34	HA-13-W2 (2-3)	Soil	04/30/2015	05/01/2015
15E0072-36	HA-10-E2 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-37	HA-10-E2 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-38	HA-13-N1 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-39	HA-13-N1 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-42	HA-13-N2 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-43	HA-13-N2 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-46	HA-13 (1-2)	Soil	04/30/2015	05/01/2015

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
15E0072-49	HA-13-W1 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-50	HA-13-W1 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-51	HA-13-S1 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-52	HA-13-S1 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-55	HA-13-E1 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-56	HA-13-E1 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-59	HA-13-S2 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-60	HA-13-S2 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-63	HA-22-N1 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-64	HA-22-N1 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-65	HA-22-N1 (2-3)	Soil	04/30/2015	05/01/2015
15E0072-67	HA-22 (2-3)	Soil	04/30/2015	05/01/2015
15E0072-69	HA-22-S1 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-70	HA-22-S1 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-71	HA-10-N1 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-72	HA-10-N1 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-75	HA-10-W1 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-76	HA-10 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-79	HA-10-E1 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-80	HA-10-E1 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-83	HA-10-S1 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-84	HA-10-S1 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-87	HA-10-S2 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-88	HA-10-S2 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-91	HA-6 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-94	HA-6-N1 (0-1)	Soil	04/30/2015	05/01/2015
15E0072-95	HA-6-N1 (1-2)	Soil	04/30/2015	05/01/2015
15E0072-98	HA-6-S1 (0-1)	Soil	04/30/2015	05/01/2015

General Notes for York Project (SDG) No.: 15E0072

- 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:

Benjamin Gulizia

Laboratory Director

YORK

06/03/2015

Date:



	Client Sample ID:	FIELD BLANK-5012015
--	-------------------	---------------------

Client Project ID 140109003

<u>Matrix</u> Water Collection Date/Time
May 1, 2015 11:30 am

Data/Tima

Doto/Time

York Sample ID:

Date Received 05/01/2015

15E0072-01

Arsenic by EPA 6010

York Project (SDG) No.

15E0072

Sample Prepared by Method: EPA 3010A

Log-in Notes:

Sample Notes:

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		ND		mg/L	0.00400	1	EPA 6010C	05/04/2015 14:44	05/05/2015 03:33	MW

Sample Information

Client Sample ID: Dup-1 York Sample ID: 15E0072-02

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 2015 3:00 pm05/01/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: EPA 3050B

CAS N	lo.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		8.12		mg/kg dry	1.16	1	EPA 6010C	05/05/2015 14:24	05/05/2015 21:02	MW

Total Solids Log-in Notes: Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS	No.	Parameter	Result	Flag U	nits	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		86.4	%		0.100	1	SM 2540G	05/06/2015 17:12	05/07/2015 13:24	KK

Sample Information

Client Sample ID: Dup-2 York Sample ID: 15E0072-03

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 20153:00 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLResult Units Dilution Reference Method Analyzed Analyst CAS No. Parameter Prepared 7440-38-2 1.15 EPA 6010C 05/05/2015 14:24 05/05/2015 21:07 Arsenic 169 mg/kg dry

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS No. Parameter Result Flag Units RL Dilution Reference Method Prepared Analyzed Analyst

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 4 of 49



Client Sample ID: Dup-2 York Sample ID: 15E0072-03

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 2015 3:00 pm05/01/2015

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		87.1		%	0.100	1	SM 2540G	05/06/2015 17:12	05/07/2015 13:24	KK

Sample Information

Client Sample ID: Dup-3 York Sample ID: 15E0072-04

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 2015 3:00 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS N	lo.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		3.13		mg/kg dry	1.18	1	EPA 6010C	05/05/2015 14:24	05/05/2015 21:36	MW

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS No).	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
solids	% Solids		85.0		%	0.100	1	SM 2540G	05/06/2015 17:12	05/07/2015 13:24	KK

Sample Information

<u>Client Sample ID:</u> HA-5-S2 (0-1) <u>York Sample ID:</u> 15E0072-09

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 20159:24 am05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		9.04		mg/kg dry	1.23	1	EPA 6010C	05/15/2015 13:44	05/15/2015 23:33	MW

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<mark>7-0166</mark>

Page 5 of 49

Data/Tima

Data/Time



Client Sample ID: HA-5-S2 (0-1) **York Sample ID:** 15E0072-09

Date Received York Project (SDG) No. Client Project ID Matrix Collection Date/Time 15E0072 140109003 Soil April 30, 2015 9:24 am 05/01/2015

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		81.5		%	0.100	1	SM 2540G	05/14/2015 16:31	05/15/2015 16:41	SCA

Sample Information

HA-6-W1 (0-1) **Client Sample ID:** York Sample ID: 15E0072-17

York Project (SDG) No. Client Project ID Collection Date/Time Date Received Matrix April 30, 2015 10:10 am 15E0072 140109003 Soil 05/01/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Date/11me Analyzed	Analyst
7440-38-2	Arsenic		3.52		mg/kg dry	1.11	1	EPA 6010C	05/05/2015 14:24	05/05/2015 21:40	MW

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

CAS No).	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		90.1		%	0.100	1	SM 2540G	05/06/2015 17:12	05/07/2015 13:24	KK

Sample Information

Client Sample ID: HA-10-W2 (0-1) **York Sample ID:** 15E0072-22

Date Received York Project (SDG) No. Client Project ID Matrix Collection Date/Time 140109003 05/01/2015 15E0072 Soil April 30, 2015 10:40 am

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		55.9		mg/kg dry	1.24	1	EPA 6010C	05/15/2015 13:46	05/15/2015 23:56	MW

Log-in Notes: Total Solids Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilu	tion	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		80.7		%	0.10)	1 5	SM 2540G	05/14/2015 16:28	05/15/2015 09:03	KK

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 6 of 49



<u>Client Sample ID:</u> HA-10-W2 (0-1) <u>York Sample ID:</u> 15E0072-22

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0072
 140109003
 Soil
 April 30, 2015
 10:40 am
 05/01/2015

Sample Information

<u>Client Sample ID:</u> HA-10-W2 (1-2) <u>York Sample ID:</u> 15E0072-23

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0072
 140109003
 Soil
 April 30, 2015
 10:41 am
 05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLResult Units Dilution Reference Method Parameter Prepared Analyzed Analyst 7440-38-2 19.9 mg/kg dry 1.16 EPA 6010C 05/27/2015 15:04 05/27/2015 18:43 MW Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RLDilution CAS No. Parameter Result Flag Units Reference Method Analyzed Prepared Analyst % 0.100 SM 2540G 05/27/2015 09:12 05/27/2015 16:38 KK solids % Solids 85.9

Sample Information

<u>Client Sample ID:</u> HA-22-W2 (0-1) <u>York Sample ID:</u> 15E0072-24

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 201511:20 am05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLCAS No. Parameter Result Flag Units Dilution Reference Method Analyzed Analyst Prepared 7440-38-2 EPA 6010C 05/15/2015 13:46 05/16/2015 00:13 Arsenic 6.85 mg/kg dry

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL Dilution CAS No. Parameter Result Flag Units Reference Method Prepared Analyzed Analyst SM 2540G solids % Solids 88.8 % 0.100 05/14/2015 16:28 05/15/2015 09:03 KK

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 7 of 49



<u>Client Sample ID:</u> HA-22-W1 (0-1) <u>York Sample ID:</u> 15E0072-27

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0072
 140109003
 Soil
 April 30, 2015 11:25 am
 05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RL. Parameter Units Dilution Reference Method Analyzed Prepared 7440-38-2 94.5 mg/kg dry EPA 6010C 05/05/2015 14:24 05/05/2015 21:45 Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL Dilution Reference Method Result Flag Units Analyzed Analyst Parameter Prepared SM 2540G 05/06/2015 17:12 05/07/2015 13:24 % 0.100 solids % Solids 88.1 KK

Sample Information

<u>Client Sample ID:</u> HA-22-W1 (1-2) <u>York Sample ID:</u> 15E0072-28

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 2015 11:26 am05/01/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time CAS No. Result Units RL. Dilution Reference Method Analyzed Parameter Prepared Analyst 7440-38-2 4.88 mg/kg dry 1.21 EPA 6010C 05/15/2015 13:46 05/16/2015 00:18 MW Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL **Dilution** Result Flag Units Reference Method CAS No. Parameter Prepared Analyzed Analyst solids % Solids 82.8 % 0.100 SM 2540G 05/14/2015 16:28 05/15/2015 09:03

Sample Information

<u>Client Sample ID:</u> HA-13-E2 (0-1) <u>York Sample ID:</u> 15E0072-30

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 2015 12:05 pm05/01/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 8 of 49



HA-13-E2 (0-1) **Client Sample ID:** York Sample ID: 15E0072-30

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received

140109003 Soil April 30, 2015 12:05 pm 05/01/2015 15E0072

Data/Time

Data/Time

Sample Prepared by Method: EPA 3050B

CAS I	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		15.0		mg/kg drv	1.09	1	EPA 6010C	05/15/2015 13:46	05/16/2015 00:22	MW

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RLDilution Units Reference Method CAS No. Parameter Result Flag Prepared Analyzed Analyst solids % Solids 92.0 % 0.100 SM 2540G 05/14/2015 16:28 05/15/2015 09:03 KK

Sample Information

Client Sample ID: HA-13-E2 (1-2) York Sample ID: 15E0072-31

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 05/01/2015 15E0072 140109003 Soil April 30, 2015 12:06 pm

Arsenic by EPA 6010 **Log-in Notes: Sample Notes:**

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLCAS No. Result Units Dilution Reference Method Parameter Flag Analyzed Analyst Prepared 7440-38-2 1.17 EPA 6010C 05/27/2015 15:04 05/27/2015 18:48 3.90 mg/kg dry MW Arsenic

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time Parameter Result Units RL Dilution Reference Method Analyzed Analyst Prepared % 0.100 SM 2540G 05/27/2015 09:12 05/27/2015 16:38 solids % Solids 85.7

Sample Information

HA-13-W2 (0-1) York Sample ID: 15E0072-32 **Client Sample ID:**

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 15E0072 140109003 Soil April 30, 2015 11:40 am 05/01/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLDilution Units Reference Method Analyzed CAS No Result Flag Prepared Analyst Parameter 1 20 EPA 6010C 05/15/2015 13:46 05/16/2015 00:40 MW 7440-38-2 104 mg/kg dry Arsenic

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 9 of 49



Client Sample ID: HA-13-W2 (0-1) **York Sample ID:**

15E0072-32

York Project (SDG) No. 15E0072

Client Project ID

Matrix

Collection Date/Time

Date Received

140109003

Soil

April 30, 2015 11:40 am

05/01/2015

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		83.6		%	0.100	1	SM 2540G	05/14/2015 16:28	05/15/2015 09:03	KK

Sample Information

Client Sample ID: HA-13-W2 (1-2) **York Sample ID:**

15E0072-33

York Project (SDG) No. 15E0072

Client Project ID 140109003

Matrix Soil

Collection Date/Time April 30, 2015 11:41 am Date Received 05/01/2015

Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

Log-in Notes:

Sample Notes:

Date/Time

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analys
7440-38-2	Arsenic		16.8		mg/kg dry	1.21	1	EPA 6010C	06/01/2015 15:44	06/01/2015 20:58	AMC

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS I	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
solids	% Solids		82.5		%	0.100	1	SM 2540G	06/01/2015 19:08	06/02/2015 10:52	KK

Sample Information

Client Sample ID: HA-13-W2 (2-3)

15E0072-34

York Project (SDG) No. 15E0072

Client Project ID 140109003

Matrix Soil

Collection Date/Time April 30, 2015 11:42 am

York Sample ID:

Date Received

05/01/2015

Arsenic by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2 Arse	nic	5.51		mg/kg dry	1.21	1	EPA 6010C	06/02/2015 16:53	06/02/2015 21:13	AMC

Log-in Notes: Sample Notes: Total Solids

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 10 of 49



Client Sample ID: HA-13-W2 (2-3) **York Sample ID:** 15E0072-34

Date Received York Project (SDG) No. Client Project ID Matrix Collection Date/Time 15E0072 140109003 Soil April 30, 2015 11:42 am 05/01/2015

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		82.3		%	0.100	1	SM 2540G	06/03/2015 10:02	06/03/2015 15:43	SCA

Sample Information

HA-10-E2 (0-1) **Client Sample ID:** York Sample ID: 15E0072-36

York Project (SDG) No. Client Project ID Collection Date/Time Date Received Matrix 15E0072 140109003 Soil April 30, 2015 12:10 pm 05/01/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

	CAS No).	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Date/11me Analyzed	Analyst
744	0-38-2	Arsenic		18.7		mg/kg dry	1.12	1	EPA 6010C	05/15/2015 13:46	05/16/2015 00:44	MW

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		89.1		%	0.100	1	SM 2540G	05/14/2015 16:28	05/15/2015 09:03	KK

Sample Information

Client Sample ID: HA-10-E2 (1-2) **York Sample ID:** 15E0072-37

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 140109003 05/01/2015 15E0072 Soil April 30, 2015 12:11 pm

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		4.94		mg/kg dry	1.24	1	EPA 6010C	06/01/2015 15:44	06/01/2015 21:03	AMC

Log-in Notes: Total Solids Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS N	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		80.7		%	0.100	1	SM 2540G	06/01/2015 19:08	06/02/2015 10:52	KK

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 11 of 49



<u>Client Sample ID:</u> HA-10-E2 (1-2) <u>York Sample ID:</u> 15E0072-37

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0072
 140109003
 Soil
 April 30, 2015
 12:11 pm
 05/01/2015

Sample Information

<u>Client Sample ID:</u> HA-13-N1 (0-1) <u>York Sample ID:</u> 15E0072-38

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 2015 12:50 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

RLResult Flag Units Dilution Reference Method **Parameter** Prepared Analyzed Analyst 05/05/2015 14:24 7440-38-2 56.3 mg/kg dry 1.15 EPA 6010C 05/05/2015 21:50 MW Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RLDilution CAS No. Parameter Result Flag Units Reference Method Analyzed Prepared Analyst % 0.100 SM 2540G 05/06/2015 17:12 05/07/2015 13:24 solids KK % Solids 86.6

Sample Information

<u>Client Sample ID:</u> HA-13-N1 (1-2) <u>York Sample ID:</u> 15E0072-39

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 2015 12:51 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLCAS No. Parameter Result Flag Units Dilution Reference Method Analyzed Analyst Prepared 7440-38-2 mg/kg dry 1.20 EPA 6010C 05/15/2015 13:46 05/16/2015 00:49 Arsenic 6.21

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL Dilution CAS No. Parameter Result Flag Units Reference Method Prepared Analyzed Analyst SM 2540G 05/14/2015 16:28 05/15/2015 09:03 solids % Solids 83.2 % 0.100 KK

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 12 of 49

Date/Time

Date/Time



<u>Client Sample ID:</u> HA-13-N2 (0-1) <u>York Sample ID:</u> 15E0072-42

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0072
 140109003
 Soil
 April 30, 2015
 12:54 pm
 05/01/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RL. Parameter Units Dilution Reference Method Analyzed Prepared 7440-38-2 108 mg/kg dry 1.18 EPA 6010C 05/15/2015 13:46 05/16/2015 00:54 Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL Dilution Reference Method <u>Analyze</u>d Result Flag Units Analyst Parameter Prepared SM 2540G 05/14/2015 16:28 05/15/2015 09:03 % 0.100 solids % Solids 84.6 KK

Sample Information

<u>Client Sample ID:</u> HA-13-N2 (1-2) <u>York Sample ID:</u> 15E0072-43

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0072
 140109003
 Soil
 April 30, 2015 12:55 pm
 05/01/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time CAS No. Result Units RL. Dilution Reference Method Analyzed Parameter Prepared Analyst 7440-38-2 6.78 mg/kg dry 1.17 EPA 6010C 05/27/2015 15:04 05/27/2015 18:52 MW Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL **Dilution** Flag Units Reference Method CAS No. Parameter Result Prepared Analyzed Analyst solids % Solids 85.7 % 0.100 SM 2540G 05/27/2015 09:12 05/27/2015 16:38

Sample Information

<u>Client Sample ID:</u> HA-13 (1-2) <u>York Sample ID:</u> 15E0072-46

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 20151:20 pm05/01/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<mark>7-0166</mark>

Page 13 of 49



<u>Client Sample ID:</u> HA-13 (1-2) <u>York Sample ID:</u> 15E0072-46

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0072
 140109003
 Soil
 April 30, 2015
 1:20 pm
 05/01/2015

Sample Prepared by Method: EPA 3050B

CAS N	io. P	Parameter Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic	9.33		mg/kg dry	1.16	1	EPA 6010C	05/05/2015 14:24	05/05/2015 21:55	MW

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS No		Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		85.9		%	0.100	1	SM 2540G	05/06/2015 17:12	05/07/2015 13:24	KK

Sample Information

Client Sample ID: HA-13-W1 (0-1)

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0072
 140109003
 Soil
 April 30, 2015
 1:25 pm
 05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		122	1	mg/kg dry	1.15	1	EPA 6010C	05/05/2015 14:24	05/05/2015 22:00	MW

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		87.1		%	0.100	1	SM 2540G	05/06/2015 17:12	05/07/2015 13:24	KK

Sample Information

<u>Client Sample ID:</u> HA-13-W1 (1-2) <u>York Sample ID:</u> 15E0072-50

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 20151:26 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RL Dilution Result Units Reference Method Analyzed CAS No Flag Parameter Prepared Analyst 05/16/2015 00:58 7440-38-2 1 18 EPA 6010C 05/15/2015 13:46 MW Arsenic 15.3 mg/kg dry

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 14 of 49

Date/Time

York Sample ID:

D / /T*

Data/Time

15E0072-49



Client Sample ID: HA-13-W1 (1-2) York Sample ID:

15E0072-50

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15E0072

140109003

Soil

April 30, 2015 1:26 pm

05/01/2015

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS N	lo.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/11me Prepared	Date/Time Analyzed	Analyst
solids	% Solids		84.5		%	0.100	1	SM 2540G	05/14/2015 16:28	05/15/2015 09:03	KK

Sample Information

Client Sample ID: HA-13-S1 (0-1) **York Sample ID:**

15E0072-51

York Project (SDG) No. 15E0072

Client Project ID

Matrix

Collection Date/Time

Date Received

140109003

Flag

Soil

April 30, 2015 1:50 pm

05/01/2015

Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

Dilution

Sample Notes:

Reference Method

Date/Time Analyzed

7440-38-2

CAS No.

Arsenic

Parameter

Result 46.3

Units mg/kg dry

1.14

EPA 6010C

05/05/2015 14:24

Date/Time

Prepared

Analyst 05/05/2015 22:04 MW

Total Solids

Log-in Notes:

RL

Sample Notes:

Sample Prepared by Method: % Solids Prep

	CAS No		Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
:	solids	% Solids		87.8		%	0.100	1	SM 2540G	05/06/2015 17:12	05/07/2015 13:24	KK

Sample Information

Client Sample ID: HA-13-S1 (1-2) York Sample ID:

15E0072-52

York Project (SDG) No. 15E0072

Client Project ID 140109003

Matrix Soil

Collection Date/Time April 30, 2015 1:51 pm Date Received 05/01/2015

Arsenic by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2 Ars e	enic	5.78	•	mg/kg dry	1.20	1	EPA 6010C	05/15/2015 13:46	05/16/2015 01:03	MW

Log-in Notes: Sample Notes: Total Solids

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 15 of 49



<u>Client Sample ID:</u> HA-13-S1 (1-2) <u>York Sample ID:</u> 15E0072-52

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 20151:51 pm05/01/2015

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		83.4		%	0.100	1	SM 2540G	05/14/2015 16:28	05/15/2015 09:03	KK

Sample Information

<u>Client Sample ID:</u> HA-13-E1 (0-1) <u>York Sample ID:</u> 15E0072-55

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0072
 140109003
 Soil
 April 30, 2015
 1:54 pm
 05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CA	S No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		133		mg/kg dry	1.18	1	EPA 6010C	05/05/2015 14:24	05/05/2015 22:09	MW

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		84.9		%	0.100	1	SM 2540G	05/06/2015 17:12	05/07/2015 13:24	KK

Sample Information

<u>Client Sample ID:</u> HA-13-E1 (1-2) <u>York Sample ID:</u> 15E0072-56

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 20151:55 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag Unit	s RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2 Arsen	ie.	9.81	mg/kg	dry 1.18	1	EPA 6010C	05/15/2015 13:46	05/16/2015 01:08	MW

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS N	Vo.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		85.0		%	0.100	1	SM 2540G	05/14/2015 16:28	05/15/2015 09:03	KK

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 16 of 49



<u>Client Sample ID:</u> HA-13-E1 (1-2) <u>York Sample ID:</u> 15E0072-56

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0072
 140109003
 Soil
 April 30, 2015
 1:55 pm
 05/01/2015

Sample Information

<u>Client Sample ID:</u> HA-13-S2 (0-1) <u>York Sample ID:</u> 15E0072-59

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 20152:20 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

RLResult Units Dilution Reference Method **Parameter** Prepared Analyzed Analyst 05/15/2015 13:46 7440-38-2 27.3 mg/kg dry 1.16 EPA 6010C 05/16/2015 01:13 MW Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RLDilution CAS No. Parameter Result Flag Units Reference Method Analyzed Prepared Analyst % 0.100 SM 2540G 05/14/2015 16:28 05/15/2015 09:03 solids KK % Solids 86.3

Sample Information

<u>Client Sample ID:</u> HA-13-S2 (1-2) <u>York Sample ID:</u> 15E0072-60

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 20152:21 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLCAS No. Parameter Result Flag Units Dilution Reference Method Analyzed Analyst Prepared 7440-38-2 mg/kg dry 1.22 EPA 6010C 05/27/2015 15:04 05/27/2015 18:57 Arsenic 4.53

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL Dilution CAS No. Parameter Result Flag Units Reference Method Prepared Analyzed Analyst SM 2540G 05/27/2015 09:12 solids % Solids 82.0 % 0.100 05/27/2015 16:38 KK

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 17 of 49

Date/Time

Date/Time



<u>Client Sample ID:</u> HA-22-N1 (0-1) <u>York Sample ID:</u> 15E0072-63

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0072
 140109003
 Soil
 April 30, 2015
 2:40 pm
 05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RL. Parameter Units Dilution Reference Method Analyzed Prepared 7440-38-2 257 mg/kg dry 1.12 EPA 6010C 05/05/2015 14:24 05/05/2015 22:14 Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL Dilution Reference Method Result Flag Units Analyzed Analyst Parameter Prepared SM 2540G 05/06/2015 17:14 05/07/2015 13:29 % 0.100 solids % Solids 89.6 KK

Sample Information

<u>Client Sample ID:</u> HA-22-N1 (1-2) <u>York Sample ID:</u> 15E0072-64

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 20152:41 pm05/01/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time CAS No. Result Units RL. Dilution Reference Method Analyzed Parameter Prepared Analyst 7440-38-2 15.6 mg/kg dry 1.17 EPA 6010C 05/15/2015 13:46 05/16/2015 01:18 MW Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL **Dilution** Result Flag Units Reference Method CAS No. Parameter Prepared Analyzed Analyst solids % Solids 85.2 % 0.100 SM 2540G 05/14/2015 16:28 05/15/2015 09:03

Sample Information

<u>Client Sample ID:</u> HA-22-N1 (2-3) <u>York Sample ID:</u> 15E0072-65

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 20152:42 pm05/01/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 18 of 49



HA-22-N1 (2-3) **Client Sample ID:** York Sample ID: 15E0072-65

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received

140109003 Soil April 30, 2015 2:42 pm 05/01/2015 15E0072

Data/Time

Data/Time

Sample Prepared by Method: EPA 3050B

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		5 79	ı	mg/kg drv	1.24	1	EPA 6010C	05/27/2015 15:04	05/27/2015 19:02	MW

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RLDilution Units Reference Method CAS No. Parameter Result Flag Prepared Analyzed Analyst % solids % Solids 80.9 0.100 SM 2540G 05/27/2015 09:12 05/27/2015 16:38 KK

Sample Information

Client Sample ID: HA-22 (2-3) York Sample ID: 15E0072-67

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 05/01/2015 15E0072 140109003 Soil April 30, 2015 3:01 pm

Log-in Notes: Arsenic by EPA 6010 **Sample Notes:**

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time Result RLCAS No. Units Dilution Reference Method Parameter Flag Analyzed Analyst Prepared 7440-38-2 1.23 EPA 6010C 05/05/2015 14:24 05/05/2015 22:32 2.77 mg/kg dry MW Arsenic

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time Parameter Result Units RL Dilution Reference Method Analyzed Analyst Prepared % 0.100 SM 2540G 05/06/2015 17:14 05/07/2015 13:29 solids % Solids 81.3

Sample Information

HA-22-S1 (0-1) York Sample ID: 15E0072-69 **Client Sample ID:**

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 15E0072 140109003 Soil April 30, 2015 3:05 pm 05/01/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLDilution Units Reference Method Analyzed CAS No Result Flag Analyst Parameter Prepared 05/05/2015 22:36 1.15 EPA 6010C 05/05/2015 14:24 MW 7440-38-2 500 mg/kg dry Arsenic

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 19 of 49



Client Sample ID: HA-22-S1 (0-1) York Sample ID:

15E0072-69

York Project (SDG) No. 15E0072

Client Project ID

Matrix

Collection Date/Time

Date Received

140109003

Soil

April 30, 2015 3:05 pm

05/01/2015

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.			Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	solids	% Solids		87.1		%	0.100	1	SM 2540G	05/06/2015 17:14	05/07/2015 13:29	KK

Sample Information

Client Sample ID: HA-22-S1 (1-2) **York Sample ID:**

15E0072-70

York Project (SDG) No. 15E0072

Client Project ID 140109003

Matrix Soil

Collection Date/Time April 30, 2015 3:06 pm Date Received 05/01/2015

Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

	otes:	

RL

Sample Notes:

Date/Time Date/Time

7440-38-2

CAS No.

Arsenic

Result 40.8

Result

Units mg/kg dry

Units

%

Flag

1.16

Reference Method EPA 6010C

Dilution

Dilution

Prepared 05/15/2015 13:46

Date/Time

05/14/2015 16:28

Prepared

Analyzed Analyst 05/16/2015 01:22

MW

KK

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

RL

0.100

Sample Notes:

Reference Method

SM 2540G

05/15/2015 09:03

Date/Time Analyzed Analyst

Parameter

solids	% Solids	86.1

Parameter

Sample Information

Client Sample ID: HA-10-N1 (0-1)

York Sample ID:

15E0072-71

York Project (SDG) No. 15E0072

Client Project ID 140109003

Matrix Soil

Collection Date/Time April 30, 2015 4:05 pm Date Received 05/01/2015

Arsenic by EPA 6010

Log-in Notes:

Sample Notes:

Sample	rrepareu	υy	wiemou.	EIA	3030D	

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		51.0		mg/kg dry	1.14	1	EPA 6010C	05/05/2015 14:24	05/05/2015 22:41	MW

Log-in Notes: Sample Notes: Total Solids

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 20 of 49



Client Sample ID: HA-10-N1 (0-1) **York Sample ID:** 15E0072-71

Date Received York Project (SDG) No. Client Project ID Matrix Collection Date/Time 05/01/2015

15E0072 140109003 Soil April 30, 2015 4:05 pm

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		87.9		%	0.100	1	SM 2540G	05/06/2015 17:14	05/07/2015 13:29	KK

Sample Information

HA-10-N1 (1-2) **Client Sample ID:** York Sample ID: 15E0072-72

York Project (SDG) No. Client Project ID Collection Date/Time Matrix Date Received 15E0072 140109003 Soil April 30, 2015 4:06 pm 05/01/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS No		Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		3.06		mg/kg dry	1.19	1	EPA 6010C	05/15/2015 13:46	05/16/2015 01:40	MW

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		83.9		%	0.100	1	SM 2540G	05/14/2015 16:28	05/15/2015 09:03	KK

Sample Information

Client Sample ID: HA-10-W1 (0-1) **York Sample ID:** 15E0072-75

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 140109003 15E0072 Soil April 30, 2015 4:25 pm 05/01/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag l	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2 Arsenic		33.0	n	mø/kø dry	1 13	1	EPA 6010C	05/05/2015 14:24	05/05/2015 22:46	MW

Total Solids **Log-in Notes: Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		88.4		%	0.100	1	SM 2540G	05/06/2015 17:14	05/07/2015 13:29	KK

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 21 of 49

D-4-/T:---



<u>Client Sample ID:</u> HA-10-W1 (0-1) <u>York Sample ID:</u> 15E0072-75

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0072
 140109003
 Soil
 April 30, 2015
 4:25 pm
 05/01/2015

Sample Information

<u>Client Sample ID:</u> HA-10 (1-2) <u>York Sample ID:</u> 15E0072-76

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 2015 4:30 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

RLResult Flag Units Dilution Reference Method **Parameter** Prepared Analyzed Analyst 05/15/2015 13:46 7440-38-2 4.35 mg/kg dry 1.21 EPA 6010C 05/16/2015 01:45 MW Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RLDilution CAS No. Parameter Result Flag Units Reference Method Analyzed Prepared Analyst % 0.100 SM 2540G 05/14/2015 16:28 05/15/2015 09:03 solids KK % Solids 82.9

Sample Information

<u>Client Sample ID:</u> HA-10-E1 (0-1) <u>York Sample ID:</u> 15E0072-79

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 20154:45 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLCAS No. Parameter Result Flag Units Dilution Reference Method Analyzed Analyst Prepared 7440-38-2 mg/kg dry 1.10 EPA 6010C 05/05/2015 14:24 05/05/2015 22:50 Arsenic 23.2

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL Result Dilution CAS No. Parameter Flag Units Reference Method Prepared Analyzed Analyst SM 2540G 05/07/2015 13:29 solids % Solids 90.9 % 0.100 05/06/2015 17:14 KK

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<mark>7-0166</mark>

Page 22 of 49

Date/Time

Date/Time



<u>Client Sample ID:</u> HA-10-E1 (1-2) <u>York Sample ID:</u> 15E0072-80

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0072
 140109003
 Soil
 April 30, 2015
 4:46 pm
 05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RL. Parameter Units Dilution Reference Method Analyzed Prepared 7440-38-2 4.85 mg/kg dry 1.17 EPA 6010C 05/15/2015 13:46 05/16/2015 01:50 Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL Dilution Reference Method <u>Analyze</u>d Result Flag Units Analyst Parameter Prepared SM 2540G 05/14/2015 16:28 05/15/2015 09:03 % 0.100 solids % Solids 85.1 KK

Sample Information

<u>Client Sample ID:</u> HA-10-S1 (0-1) <u>York Sample ID:</u> 15E0072-83

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 2015 5:00 pm05/01/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time CAS No. Result Units RL. Dilution Reference Method Analyzed Parameter Prepared Analyst 7440-38-2 24.6 mg/kg dry 1.11 EPA 6010C 05/05/2015 14:24 05/05/2015 22:55 MW Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL **Dilution** Flag Units Reference Method CAS No. Parameter Result Prepared Analyzed Analyst solids % Solids 89.9 % 0.100 SM 2540G 05/06/2015 17:14 05/07/2015 13:29

Sample Information

<u>Client Sample ID:</u> HA-10-S1 (1-2) <u>York Sample ID:</u> 15E0072-84

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 20155:01 pm05/01/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 23 of 49



<u>Client Sample ID:</u> HA-10-S1 (1-2) <u>York Sample ID:</u> 15E0072-84

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 2015 5:01 pm05/01/2015

Sample Prepared by Method: EPA 3050B

CAS N	lo.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		3.43		mg/kg dry	1.17	1	EPA 6010C	05/15/2015 13:46	05/16/2015 01:54	MW

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS No.		Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		85.4		%	0.100	1	SM 2540G	05/14/2015 16:28	05/15/2015 09:03	KK

Sample Information

<u>Client Sample ID:</u> HA-10-S2 (0-1) <u>York Sample ID:</u> 15E0072-87

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 2015 5:05 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

C	AS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-	2 Augonia		22.0		ma/ka dry	1.17	1	EPA 6010C	05/15/2015 13:46	05/16/2015 01:59	MW

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS No.		Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		85.5		%	0.100	1	SM 2540G	05/14/2015 16:28	05/15/2015 09:03	KK

Sample Information

<u>Client Sample ID:</u> HA-10-S2 (1-2) <u>York Sample ID:</u> 15E0072-88

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0072140109003SoilApril 30, 20155:06 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		6.02		mg/kg dry	1.13	1	EPA 6010C	05/27/2015 15:04	05/27/2015 19:07	MW

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 24 of 49

Data/Time

Date/Time



Client Sample ID: HA-10-S2 (1-2) **York Sample ID:**

15E0072-88

York Project (SDG) No. 15E0072

Client Project ID 140109003

Matrix Soil

Collection Date/Time April 30, 2015 5:06 pm Date Received 05/01/2015

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

CAS	S No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		88.8		%	0.100	1	SM 2540G	05/27/2015 09:12	05/27/2015 16:38	KK

Sample Information

Client Sample ID: HA-6 (1-2) **York Sample ID:**

15E0072-91

York Project (SDG) No. 15E0072

Client Project ID 140109003

Matrix Soil

Collection Date/Time April 30, 2015 5:35 pm

D-4-/T:---

Date Received 05/01/2015

Arsenic by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		8.83		mg/kg dry	1.23	1	EPA 6010C	05/05/2015 14:24	05/05/2015 23:00	MW

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

CAS No.		Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		81.0		%	0.100	1	SM 2540G	05/06/2015 17:14	05/07/2015 13:29	KK

Sample Information

Client Sample ID: HA-6-N1 (0-1) York Sample ID: 15E0072-94

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 15E0072 140109003 Soil April 30, 2015 5:40 pm 05/01/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS No	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		12.2		mg/kg dry	1.14	1	EPA 6010C	05/05/2015 14:24	05/05/2015 23:05	MW

Log-in Notes: Sample Notes: Total Solids

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 25 of 49



Client Sample ID: HA-6-N1 (0-1) **York Sample ID:** 15E0072-94

Date Received York Project (SDG) No. Client Project ID Matrix Collection Date/Time 15E0072 05/01/2015

140109003 Soil April 30, 2015 5:40 pm

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		87.7		%	0.100	1	SM 2540G	05/06/2015 17:14	05/07/2015 13:29	KK

Sample Information

HA-6-N1 (1-2) **Client Sample ID:** York Sample ID: 15E0072-95

York Project (SDG) No. Client Project ID Collection Date/Time Matrix Date Received 15E0072 140109003 Soil April 30, 2015 5:41 pm 05/01/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS No		Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		7.37		mg/kg dry	1.23	1	EPA 6010C	05/15/2015 13:46	05/16/2015 02:04	MW

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

CAS N).	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		81.2		%	0.100	1	SM 2540G	05/14/2015 16:28	05/15/2015 09:03	KK

Sample Information

Client Sample ID: HA-6-S1 (0-1) **York Sample ID:** 15E0072-98

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 140109003 15E0072 Soil April 30, 2015 6:00 pm 05/01/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2 A	rsenic	5.88		mø/kø dry	1.15	1	EPA 6010C	05/05/2015 14:24	05/05/2015 23:09	MW

Total Solids **Log-in Notes: Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RI		Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		86.6		%	0.10	00	1	SM 2540G	05/06/2015 17:14	05/07/2015 13:29	KK

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 26 of 49

D-4-/T:---



<u>Client Sample ID:</u> HA-6-S1 (0-1) <u>York Sample ID:</u> 15E0072-98

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0072
 140109003
 Soil
 April 30, 2015 6:00 pm
 05/01/2015

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 27 of 49



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: York Analytical Laboratories, Inc. Client: Langan Engineering & Environmental Serv

Project Location: 140109003 Lab Project No.: 15E0072

Laboratory Sample ID(s): 15E0072-01 - 15E0072-98 Sampling Date(s): 04/30/2015 - 05/01/2015

RCP Methods Used: See Narrative and Method Reference Section of this Technical Report

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

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

This form may not be altered and all questions must be answered.

I, the	unders	signe	d, attest	under th	ne pai	ns an	d penalties	of p	erjury	that,	to t	he best	of my	knowled	lge	and	belief	and
based	upon	my	personal	inquiry	of	those	responsible	for	provid	ding	the	informat	ion c	ontained	in	this	analy	tical
report	such i	nform	nation is a	ccurate	and co	mplet	e.											

Authorized Signature:

Bell

Position: Laboratory Director

Printed Name: Benjamin Gulizia Date: 06/03/2015

YORK



Case Narrative

Client: Langan Engineering & Environmental Services (CT)
Client Project ID: 140109003
Prepared for: Ryan Wohlstrom

Introduction

This Case Narrative applies to the following samples submitted to our laboratory on 5/1/2015 5:10:00 PM:

Dup-1	Soil
Dup-2	Soil
Dup-3	Soil
FIELD BLANK-5012015	Water
HA-10-E1 (0-1)	Soil
HA-10-N1 (0-1)	Soil
HA-10-S1 (0-1)	Soil
HA-10-W1 (0-1)	Soil
HA-13 (1-2)	Soil
HA-13-E1 (0-1)	Soil
HA-13-N1 (0-1)	Soil
HA-13-S1 (0-1)	Soil
HA-13-W1 (0-1)	Soil
HA-22 (2-3)	Soil
HA-22-N1 (0-1)	Soil
HA-22-S1 (0-1)	Soil
HA-22-W1 (0-1)	Soil
HA-6 (1-2)	Soil
HA-6-N1 (0-1)	Soil
HA-6-S1 (0-1)	Soil
HA-6-W1 (0-1)	Soil
` '	

The 99 sample(s) were received intact in a custody-sealed cooler unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (2-6oC) and documented as:

Cooler 4 C

Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

Preparation and analysis were conducted according to the SW-846 methods, as detailed in the sample information table, and the requirements of the State of Connecticut Reasonable Confidence Protocols (RCP).

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 29 of 49



For initial calibrations (ICAL), initial calibration verifications (ICV) and continuing calibration verifications (CCV) for organics determined by GC/MS methods (TO15 volatiles, 8260 volatiles and 8270 semi-volatiles) all method criteria and laboratory SOP criteria were met unless otherwise noted below. Any compounds in the ICAL, ICV or CCV exceeding RCP specified limits are available upon request. This data is not used for Data Quality Assessment or Data Usability Evaluation (assignment of compound bias) which are determined from other lines of evidence. Therefore the data is not detailed in this narrative.

These terms may be used interchangeably. Both are measures of the accuracy of an analysis by measurement of a known material from a source other than that used for calibration. By definition, a Standard Reference Material (SRM) is a material containing known levels of analytes used to evaluate the performance of the analytical system with respect to a defined set of acceptance criteria. It is processed exactly as a sample. An LCS (Laboratory Control Sample) is second-source standard containing known levels of analyte(s), treated exactly as a sample, run with each analytical batch. Both are metrics used to establish accuracy of the preparation/analysis methods.

Metals – Total (Arsenic)

No problems were encountered during analysis of the samples, other than detailed below.

Method Blank

No target analyte was detected at or above the RL in the method blanks.

Batch QC

Seven Standard Reference Materials and MS/Dup analysis on samples "Dup-2" and "HA-10-W2 (0-1)" were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Dilutions

No sample dilutions were required.

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 30 of 49



Analytical Batch Summary

Batch ID: BE50141	Preparation Method:	EPA 3010A	Prepared By:	MW
YORK Sample ID	Client Sample ID	Preparation Date		
15E0072-01	FIELD BLANK-5012015	05/04/15		
BE50141-BLK1	Blank	05/04/15		
BE50141-SRM1	Reference	05/04/15		
Batch ID: BE50212	Preparation Method:	EPA 3050B	Prepared By:	MW
YORK Sample ID	Client Sample ID	Preparation Date		
15E0072-02	Dup-1	05/05/15		
15E0072-03	Dup-2	05/05/15		
15E0072-04	Dup-3	05/05/15		
15E0072-17	HA-6-W1 (0-1)	05/05/15		
15E0072-27	HA-22-W1 (0-1)	05/05/15		
15E0072-38	HA-13-N1 (0-1)	05/05/15		
15E0072-46	HA-13 (1-2)	05/05/15		
15E0072-49	HA-13-W1 (0-1)	05/05/15		
15E0072-51	HA-13-S1 (0-1)	05/05/15		
15E0072-55	HA-13-E1 (0-1)	05/05/15		
15E0072-63	HA-22-N1 (0-1)	05/05/15		
15E0072-67	HA-22 (2-3)	05/05/15		
15E0072-69	HA-22-S1 (0-1)	05/05/15		
15E0072-71	HA-10-N1 (0-1)	05/05/15		
15E0072-75	HA-10-W1 (0-1)	05/05/15		
15E0072-79	HA-10-E1 (0-1)	05/05/15		
15E0072-83	HA-10-S1 (0-1)	05/05/15		
15E0072-91	HA-6 (1-2)	05/05/15		
15E0072-94	HA-6-N1 (0-1)	05/05/15		
15E0072-98	HA-6-S1 (0-1)	05/05/15		
BE50212-BLK1	Blank	05/05/15		
BE50212-DUP1	Duplicate	05/05/15		
BE50212-MS1	Matrix Spike	05/05/15		
BE50212-SRM1	Reference	05/05/15		
Batch ID: BE50312	Preparation Method:	% Solids Prep	Prepared By:	KK
	-	-	- reputed by	
YORK Sample ID	Client Sample ID	Preparation Date		
15E0072-02	Dup-1	05/06/15		
15E0072-03	Dup-2	05/06/15		
15E0072-04	Dup-3	05/06/15		
15E0072-17	HA-6-W1 (0-1)	05/06/15		
15E0072-27	HA-22-W1 (0-1)	05/06/15		
15E0072-38	HA-13-N1 (0-1)	05/06/15		
15E0072-46	HA-13 (1-2)	05/06/15		
15E0072-49	HA-13-W1 (0-1)	05/06/15		
15E0072-51	HA-13-S1 (0-1)	05/06/15		
15E0072-55	HA-13-E1 (0-1)	05/06/15		



BE50312-DUP1 Duplicate 05/06/15

Batch ID: BE50314	Preparation Method:	% Solids Prep	Prepared By:	KK
YORK Sample ID	Client Sample ID	Preparation Date		
15E0072-63	HA-22-N1 (0-1)	05/06/15		
15E0072-67	HA-22 (2-3)	05/06/15		
15E0072-69	HA-22-S1 (0-1)	05/06/15		
15E0072-71	HA-10-N1 (0-1)	05/06/15		
15E0072-75	HA-10-W1 (0-1)	05/06/15		
15E0072-79	HA-10-E1 (0-1)	05/06/15		
15E0072-83	HA-10-S1 (0-1)	05/06/15		
15E0072-91	HA-6 (1-2)	05/06/15		
15E0072-94	HA-6-N1 (0-1)	05/06/15		
15E0072-98	HA-6-S1 (0-1)	05/06/15		
Batch ID: BE50770	Preparation Method:	% Solids Prep	Prepared By:	SCA
YORK Sample ID	Client Sample ID	Preparation Date		
15E0072-22	HA-10-W2 (0-1)	05/14/15		
15E0072-24	HA-22-W2 (0-1)	05/14/15		
15E0072-28	HA-22-W1 (1-2)	05/14/15		
15E0072-30	HA-13-E2 (0-1)	05/14/15		
15E0072-32	HA-13-W2 (0-1)	05/14/15		
15E0072-36	HA-10-E2 (0-1)	05/14/15		
15E0072-39	HA-13-N1 (1-2)	05/14/15		
15E0072-42	HA-13-N2 (0-1)	05/14/15		
15E0072-50	HA-13-W1 (1-2)	05/14/15		
15E0072-52	HA-13-S1 (1-2)	05/14/15		
15E0072-56	HA-13-E1 (1-2)	05/14/15		
15E0072-59	HA-13-S2 (0-1)	05/14/15		
15E0072-64	HA-22-N1 (1-2)	05/14/15		
15E0072-70	HA-22-S1 (1-2)	05/14/15		
15E0072-72	HA-10-N1 (1-2)	05/14/15		
15E0072-76	HA-10 (1-2)	05/14/15		
15E0072-80	HA-10-E1 (1-2)	05/14/15		
15E0072-84	HA-10-S1 (1-2)	05/14/15		
15E0072-87	HA-10-S2 (0-1)	05/14/15		
15E0072-95	HA-6-N1 (1-2)	05/14/15		
BE50770-DUP1	Duplicate	05/14/15		
Batch ID: BE50771	Preparation Method:	% Solids Prep	Prepared By:	SCA
YORK Sample ID	Client Sample ID	Preparation Date		
15E0072-09	HA-5-S2 (0-1)	05/14/15		
Batch ID: BE50830	Preparation Method:	EPA 3050B	Prepared By:	MW
YORK Sample ID	Client Sample ID	Preparation Date		



 15E0072-09
 HA-5-S2 (0-1)
 05/15/15

 BE50830-BLK1
 Blank
 05/15/15

 BE50830-SRM1
 Reference
 05/15/15

Batch ID: BE50831	Preparation Method:	EPA 3050B	Prepared By:	MW
YORK Sample ID	Client Sample ID	Preparation Date		
15E0072-22	HA-10-W2 (0-1)	05/15/15		
15E0072-24	HA-22-W2 (0-1)	05/15/15		
15E0072-28	HA-22-W1 (1-2)	05/15/15		
15E0072-30	HA-13-E2 (0-1)	05/15/15		
15E0072-32	HA-13-W2 (0-1)	05/15/15		
15E0072-36	HA-10-E2 (0-1)	05/15/15		
15E0072-39	HA-13-N1 (1-2)	05/15/15		
15E0072-42	HA-13-N2 (0-1)	05/15/15		
15E0072-50	HA-13-W1 (1-2)	05/15/15		
15E0072-52	HA-13-S1 (1-2)	05/15/15		
15E0072-56	HA-13-E1 (1-2)	05/15/15		
15E0072-59	HA-13-S2 (0-1)	05/15/15		
15E0072-64	HA-22-N1 (1-2)	05/15/15		
15E0072-70	HA-22-S1 (1-2)	05/15/15		
15E0072-72	HA-10-N1 (1-2)	05/15/15		
15E0072-76	HA-10 (1-2)	05/15/15		
15E0072-80	HA-10-E1 (1-2)	05/15/15		
15E0072-84	HA-10-S1 (1-2)	05/15/15		
15E0072-87	HA-10-S2 (0-1)	05/15/15		
15E0072-95	HA-6-N1 (1-2)	05/15/15		
BE50831-BLK1	Blank	05/15/15		
BE50831-DUP1	Duplicate	05/15/15		
BE50831-MS1	Matrix Spike	05/15/15		
BE50831-SRM1	Reference	05/15/15		
Batch ID: BE51304	Preparation Method:	% Solids Prep	Prepared By:	KK
YORK Sample ID	Client Sample ID	Preparation Date		
15E0072-23	HA-10-W2 (1-2)	05/27/15		
15E0072-31	HA-13-E2 (1-2)	05/27/15		
15E0072-43	HA-13-N2 (1-2)	05/27/15		
15E0072-60	HA-13-S2 (1-2)	05/27/15		
15E0072-65	HA-22-N1 (2-3)	05/27/15		
15E0072-88	HA-10-S2 (1-2)	05/27/15		
Batch ID: BE51341	Preparation Method:	EPA 3050B	Prepared By:	MW
YORK Sample ID	Client Sample ID	Preparation Date		
15E0072-23	HA-10-W2 (1-2)	05/27/15		
15E0072-31	HA-13-E2 (1-2)	05/27/15		
15E0072-43	HA-13-N2 (1-2)	05/27/15		
15E0072-60	HA-13-S2 (1-2)	05/27/15		
15E0072-65	HA-22-N1 (2-3)	05/27/15		
15E0072-88	HA-10-S2 (1-2)	05/27/15		
400 DECEADOU DDIVE	CTDATEODD OT 00045			102) 257 0400



BE51341-BLK1 Blank 05/27/15 BE51341-SRM1 Reference 05/27/15

HA-13-W2 (2-3)

15E0072-34

Batch ID: BF50060	Preparation Method:	EPA 3050B	Prepared By:	ALD
YORK Sample ID	Client Sample ID	Preparation Date		
15E0072-33	HA-13-W2 (1-2)	06/01/15		
15E0072-37	HA-10-E2 (1-2)	06/01/15		
BF50060-BLK1	Blank	06/01/15		
BF50060-SRM1	Reference	06/01/15		
Batch ID: BF50072	Preparation Method:	% Solids Prep	Prepared By:	KK
YORK Sample ID	Client Sample ID	Preparation Date		
15E0072-33	HA-13-W2 (1-2)	06/01/15		
15E0072-37	HA-10-E2 (1-2)	06/01/15		
Batch ID: BF50134	Preparation Method:	EPA 3050B	Prepared By:	ALD
YORK Sample ID	Client Sample ID	Preparation Date		
15E0072-34	HA-13-W2 (2-3)	06/02/15		
BF50134-BLK1	Blank	06/02/15		
BF50134-SRM1	Reference	06/02/15		
Batch ID: BF50166	Preparation Method:	% Solids Prep	Prepared By:	KK
YORK Sample ID	Client Sample ID	Preparation Date		

06/03/15



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	Flag
Batch BE50141 - EPA 3010A											
Blank (BE50141-BLK1)							Prepa	ared: 05/04/2	015 Analyz	ed: 05/05/2	2015
Arsenic	ND	0.00400	mg/L								
Reference (BE50141-SRM1)							Prepa	ared: 05/04/2	015 Analyz	ed: 05/05/2	2015
Arsenic	0.623	0.00400	mg/L	0.681		91.4	84.4-114				
Batch BE50212 - EPA 3050B											
Blank (BE50212-BLK1)							Prepa	ared & Analy	zed: 05/05/	2015	
Arsenic	ND	1.00	mg/kg wet								
Duplicate (BE50212-DUP1)	*Source sample: 1	5E0072-03 (D	Oup-2)				Prepa	ared & Analy	zed: 05/05/2	2015	
Arsenic	170	1.15	mg/kg dry		169				0.380	35	
Matrix Spike (BE50212-MS1)	*Source sample: 1	5E0072-03 (D	oup-2)				Prepa	ared & Analy	zed: 05/05/	2015	
Arsenic	392	1.15	mg/kg dry	230	169	97.1	75-125				
Reference (BE50212-SRM1)							Prepa	ared & Analy	zed: 05/05/	2015	
Arsenic	148	1.00	mg/kg wet	151		98.1	70.9-130				
Batch BE50830 - EPA 3050B											
Blank (BE50830-BLK1)							Prepa	ared & Analy	zed: 05/15/	2015	
Arsenic	ND	1.00	mg/kg wet								
Reference (BE50830-SRM1)							Prepa	ared & Analy	zed: 05/15/2	2015	
Arsenic	139	1.00	mg/kg wet	151		92.4	70.9-130				



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

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag
Batch BE50831 - EPA 3050B											
Blank (BE50831-BLK1)							Prep	ared & Anal	yzed: 05/15/	2015	
Arsenic	ND	1.00	mg/kg wet								
Duplicate (BE50831-DUP1)	*Source sample: 15	5E0072-22 (H	HA-10-W2 (0	-1))			Prep	ared: 05/15/2	2015 Analyz	ed: 05/16/2	2015
Arsenic	55.3	1.24	mg/kg dry		55.9				1.13	35	
Matrix Spike (BE50831-MS1)	*Source sample: 15	5E0072-22 (H	HA-10-W2 (0	-1))			Prep	ared: 05/15/2	2015 Analyz	ed: 05/16/2	2015
Arsenic	294	1.24	mg/kg dry	248	55.9	96.2	75-125				
Reference (BE50831-SRM1)							Prep	ared & Anal	yzed: 05/15/	2015	
Arsenic	142	1.00	mg/kg wet	151		94.0	70.9-130				
Batch BE51341 - EPA 3050B											
Blank (BE51341-BLK1)							Prep	ared & Anal	yzed: 05/27/	2015	
Arsenic	ND	1.00	mg/kg wet								
Reference (BE51341-SRM1)							Prep	ared & Anal	yzed: 05/27/	2015	
Arsenic	154	1.00	mg/kg wet	151		102	70.9-130				
Batch BF50060 - EPA 3050B											
Blank (BF50060-BLK1)							Prep	ared & Anal	yzed: 06/01/	2015	
Arsenic	ND	1.00	mg/kg wet								
Reference (BF50060-SRM1)							Prep	ared & Anal	yzed: 06/01/	2015	
Arsenic	153	1.00	mg/kg wet	151		101	70.9-130				



Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte Result Limit Units Level Result %REC Limits Flag RPD Limit Flag			Reporting		Spike	Source*		%REC			RPD	
	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag

Batch BF50134 - EPA 3050B

Blank (BF50134-BLK1)				Prepared & Analyzed: 06/02/2015
Arsenic	ND	1.00 mg/kg wet		
Reference (BF50134-SRM1)				Prepared & Analyzed: 06/02/2015
Arsenic	148	1.00 mg/kg wet 151	97.8	70.9-130



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag
Batch BE50312 - % Solids Prep											
Duplicate (BE50312-DUP1)	*Source sample: 15	E0072-55 (H <i>A</i>	A-13-E1 (0	-1))			Prep	ared: 05/06/	2015 Analyz	ed: 05/07/2	2015
% Solids	85.7	0.100	%		84.9				0.871	20	
Batch BE50770 - % Solids Prep											
Duplicate (BE50770-DUP1)	*Source sample: 15	E0072-95 (H <i>A</i>	A-6-N1 (1-	2))			Prep	ared: 05/14/	2015 Analyz	ed: 05/15/2	2015
% Solids	82.4	0.100	%		81.2				1.43	20	



Notes and Definitions

* 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.

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

NR Not reported

LOD

RPD Relative Percent Difference

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

semi-volatile target compounds only.

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.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Corrective Action: The client ID for COC sample HA-13-W2 (1-2) was revised to HA-13-W1 (1-2) per J. Hall request (collected 4/30/15 13:26).

Revision Description: Client took additional samples off hold

of 18 Page 1

YORK ANALYTICAL LABORATORIES

STRATFORD, CT 06615 FAX (203) 357-0166 (203) 325-1371

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your

signature binds you to York's Std. Terms & Conditions.

York Project No. 15E0073

								- Division											_							
Report Type	A Summary	oue Pkg	kage	Electronic Data Deliverables (EDD)		S		zSite EDD		Comparison	et X sees full in):	CT PEEP RSRS	Container Description(s)		٠									Temperature	on Receipt	2,5 0,0
Repor	Summary Report Summary w/ QA Summary CT RCP Package X	CTRCP DQA/DUE Pkg NY ASP A Package	NY ASP B Package NIDEP Red Deliv	Electronic Data	Simple Excel	NYSDEC EQuIS	EZ-EDD (EOuIS)	NJDEP SRP HazSite EDD	GIS/KEY (std)	York Regulatory Comparison	Excel Spreadsheet Common to the following Rees full in):	CT DEE	Cont	Jitshiq	1202 gass				-				^		Date/Time	Date/Time
Turn-Around Time	me Day	vo Day	our Day	Standard(5-7 Days)X	Misc.		keactivity Ignitability		Sieve Anal. Heterotrophs	TOX T	Part 360-types BTU/lb. No Doctors Figure Part 360-types Aquatic Tox.	TOC Asbestos	Choose Analyses Needed from the Menu Above and Enter Below											NaOH	,	− ₽,
Turn-Arc	RUSH - Same Day RUSH - Next Day	RUSH - Two Day RUSH - Three Day	RUSH - Four Day	Standard(rg. Full Lists	15.000	ICL Ogens		4 Full App. IX A Pat 360-Rouine		-	NYODEPSewer NYSDECSewer	ove and I											H'SO	Samples Received By	Samples Received in LAB by
ct ID	8	er No.		YNJ	als Misc. Org.		ST IPH DRO		list TPH 1664		ed Air STARS TOP Air VPH	×1 /	Menu Ab											HNO ₃ Other		Sample
YOUR Project ID	40109003	Purchase Order No.		om: CTX NY	PCB/Herb Metals		8081Pest PP13 list		App. IX TAGM list Site Spec. NJDEP list	9	TCLP Pest Dissolved TCLP Herb SPLPorTCLP	Chlordane Indix Menk 608 Pest LIST Below	from the											MeOH Ascorbic Acid	1/15 17:10 Date/Time	Date/Time
χο	Ţ	Purc		Samples from: CT	Semi-Vols. Pest/PCB/Herb		BN Only 815	ly.	PAH list App TAGM list Site	44	TCL list TCI NJDEP list TCI		es Needed					STON *	* HOLD	* HOLD	*HOLD	* HOLD	A HOLD	ZnAc Asc	5	
. To:	same				Volatiles S		Nassau Co. B		Ketones P. Oxvæenates T.		524.2 T	NJDEP list App. IX SPLPGTCIP TCLP BNA	se Analys	Arsenic	1000								4	Frozen	His All Samples Relinquished By	Samples Relinquished By
Invoice To:	Ĭ			ddress:		_	624 STARS list	(A) 727	MTBE		CT RCP list Arom, only	10 50 20	Choo	Ars					a					4°C	Samples	Samples
	Company:	Phone No.	Attention:	E-Mail A	7	comprese.	una ume	resolved.	Matrix Codes	Other - specify(oil, etc.)	WW - wastewater GW - groundwater	DW - drinking water Air-A - ambient air Air-SV - soil vapor	Sample Matrix	\display	, 0									Preservation Check those Applicable	Special Instructions	ilter 🗆
<u>اة:</u>	3			5 Olympia	1	nust be o	urn-aro	ork are	Matr	Other - s	WW-w	DW - d Air-A - a Air-SV - s	1	'						7			->		100000	Lab to Filter
Report To:				dress: Kalon		manon	nd the t	ions by 1	1	3	ature)		Date/Time Sampled	11:30	00;00		3	8:18	8:21	21:40	09:23	09:24	04:25		LANGAN	
	Company:	Phone No.	- Attention:	- F-Mail Ad	J LILY	Au info	ged in a	iny quest	1	Const	ed By (Sign	Jalask (ed)	Date/Tin	2/1/8	4/30/5	-		_					>		TA	
nation	Engineering What Or	7 06511 5771	121	a Blown	" Junion	Legmiy.	Samples will NOI be logged in and the turn-around time	in until a	<u>.</u>	LA	Samples Confected/Authorized By (Signature)	tal (printed)	cation	5012015				(1-0	(2-1)	(2.3)	3-4)	10-0	(25)		OLD UNTIL ANTHORIZED	
YOUR Information	3	Haven, (7711 0	Ryder Way	TANCING .	ariy ana	on min	l not beg	100	7	es Geracie	7	Sample Identification	P. Y. A.	}	, ,	2 h	_	1			5-82 6	1 ~		مع ۲۰۰۱	
YOU	Company: Langer	New Haven, CT 06 Phone No. 203-562-5741	Contact Person: D [11].	E. Mail Address C. John Change B. Mail Address: Belack Blown E. Mail Address:		Frint Clearly and Legrnly. All Information must be complete.	Samples	clock will not begin until any questions by York are resolved.	V		Sampl		Samp	FIELD RIGHK-	Day	2000	7.01.0	HA-21- 52	HA-21-52	4A-21-52	WA-21-52	1A-5-	1	0	ਤੋਂ ਕ੍ਰੀ 40 of 49)

Page 2 of [8

Field Chain-of-Custody Record YORK ANALYTICAL LABORATORIES STRATFORD, CT 06615 (203) 325-1371 120 RESEARCH DR.

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.

FAX (203) 357-0166

This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 1SE0013

YOUR Information	Report To:	ö	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type
Company: LANSyAL	Company:	Company:		4010002	RUSH - Same Day	Summary Report
Address:	Address:	Address:		C02-0101-1	RUSH - Next Day	CT RCP Package
				Purchase Order No.	RUSH - Two Day	CTRCP DQA/DUE Pkg
Phone No.	Phone No.	Phone No.	•		RUSH - Three Day	NY ASP A Package
Contact Person:	Attention:	Attention:			RUSH - Four Day	NIDEP Red. Deliv.
E-Mail Address:	E-Mail Address:	E-Mail Address:	ddress:	Samples from: CTXNY NJ	Standard(5-7 Days)	Electronic Data Deliverables (EDD)
Daint Clouds and Locible	All Information	est he counterto	Volatiles	Pest/PCB/Herl	rg. Full Lists Misc.	Simple Excel
Frim Clearly and Legibly. An Information must be complete. 8260 full	An injormation mi	ist ve comptete.	TICs	8082PCB RCRA8	Pri.Poll.	NYSDEC EQuIS
Samples will NOT be logged in and the turn-around time	ged in and the tun	'n-around time	624 Site Spec.	st 8081Pest PP13 list	TCL Oganics	EQuIS (std)
clock will not begin until any questions by York are resolved.	ny questions by You	'k are resolved.	STARS list Nassau Co. BTEX Suffolk Co.	BN Only 8151Herb 1AL CT ETPH Acids Only CT RCP CT15 list NY 310-13	1 TAL MetCN Ignitability 13 Full TCI P Flash Point	EZ-EDD (EQuIS)
		Matrix Codes	MTBE Ketones	App. IX TAGM list	Full App. IX	GIS/KFY (std)
		S - soil	TCL list Oxygenates	P list	361	Other
Samples Collected/Authorized By (Signature)	d Bv (Signature)	Other - specify(oil, etc.) WW - wastewater	TAGM list TCLP list CT RCP list 524.2	CT RCP list SPLP or TCLP Total Air TO15 TCL list TCLP Pest Dissolved Air STARS	5 Part 360-Beseline TOX S Part 360-Econolog BTU/Ib.	York Regulatory Comparison
	(2) (2) (2)	GW - groundwater	Arom. only 502.2	ist TCLP Herb SPIPGTCLP		Excel Spreadsheet Compare to the following Regs. (please fill in):
Name (printed)	(p		App.IX list SPLPGTCLP	TCLP BNA 608 Pest (STBelow) Methane SPPORTTP 608 PCR Helium	NYSDECSover Asbestos TAGM Silica	CIDEEP RSES
Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses	om the Me	oove and Enter Below	Container Description(s)
HA-5-52 (2-3)	42:80 S1/08/V	\$0	Arsenic	*Has		2° glass
(3-4)	42.7			* Haw		>
	200			* Kan		
	(00)			* Hold		
Ι.	7007			* MOLD		
	5001			* HOLD		
	0101					
4A-6-WI (1-2)	1101		_	* HOLD		
HA-6-W2 (0-1)	0801	تر		*(-tond		
Jr-6-WZ (1-2)	1601	>	>	* Kold		→
ag mments		Preservation	4°C Frozen	HCI MeOH HNO3	H ₂ SO _← NaOH	
1 and analysis until outher ted by languar	therized by langum	Special	1600 M	5//1/2 17		on Receipt
of 4!	`	Instruction Field Filtered	Samples Relinquished By	Date/Time		;
9		Lab to Filter	Samples Relinquished By	Date/Time	Sambles Received in LAB by Di	(7.0

Page 3 of 12

YORK MALTTALL LADORATORIES 130

YDRK ANALYTICAL LABGRATORIES
12D RESEARCH DR.
STRATFORD, CT G6615
(203) 325-1371
NOTE: Yo

FAX (203) 357-0166

Field Chain-of-Custody Record

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signature binds you to York's Std. Terms & Conditions.

York Project No. 15E00 13

t Type	t N Summary		UE Pkg	age	age liv.	Electronic Data Deliverables (EDD)		S		000	Solie EDD		Comparison t	DSR c	2	Container Description(s)											Temperature	on Receipt	2 0 0	
Report Type	Summary Report	CT RCP Package	CTRCP DQA/DUE Pkg	NY ASP A Package	N.Y ASP B Package N.DEP Red. Deliv.	Electronic Data L	Simple Excel	NYSDEC EQuIS	EQuIS (std)	EZ-EDD (EQuIS)	GIS/KEY (std)	Other	York Regulatory Comparison Excel Spreadsheet Commerte the following Ross Inferes fill in the	CTOREP			200 glass	2_								>		c.miL/c+ci	S (7/0	Date/Time
Turn-Around Time	RUSH - Same Day	RUSH - Next Day	RUSH - Two Day	RUSH - Three Day	RUSH - Four Day	Standard(5-7 Days)	Misc. Org. Full Lists Misc.	-	TCL Ognis	I TAL MetCN Ignitability 3 Entl TCI P Flack Point	Full App. IX	A Part 360-Rouine Heterotrophs		NYCDEPsewer TOC NYSDECsewer Asbestos	TAGM Silica	ove and Enter Below											H,SO, NaOH		I	Samples Received in LAB by D
YOUR Project ID	140109003		Purchase Order No.			Samples from: CT NY NJ	Semi-Vols. PestPCBHert Metals Misc. O	RCRA8	st 8081Pest PP13 list	BN Only 8151Herb TAL CT ETPH Acids Only CT RCP CT15 iist NV 310-13	App. IX TAGM list	TAGM list Site Spec. NJDEP list Air TO14A	TCLP Pest Dissolved TCLP Herb SPIP OTTCLP	Chlordane Indiv. Metak 608 Pest (IST Below)		Choose Analyses Needed from the Menu Above and Enter Below	* HOLD	A HOLD	* HOLD	* HOLD	* KOLD	* KOLD		* HOLD	* KOLD	* FOLD	HCI MeOH HNO	5/1/5 17:10	Date/ IIIIe	Date/Time
Invoice To:				0.		ddress:	Volatiles	8260 full TICs	624 Site Spec.	STARS list Nassau Co.	Ketones	TCL list Oxygenates	CT RCP list 524.2 Arom. only 502.2	Halog.only NJDEP list App.IX list SPLP or TCLP		Choose Analyses	Arsenic									>	4°C Frozen In ZnAc	Hezella	Salwies Keilinquistied by	Samples Relinquished By
<u>آ</u>	Company:	Address:		Phone No.	Attention:	E-Mail Address:	1.	ust be complete	rn-around time	rk are resolved	Ma	S - soil Other - snecify(eil etc.)	WW - wastewater GW - groundwater	DW - drinking water Air-A - ambient air	Air-SV - soil vapor	Sample Matrix	S									>	Preservation Check those Applicable	Special Instructions	Field Filtered	
Report To:	Company:	Address:		Phone No.	Attention:	E-Mail Address:		и плогтанон т	ed in and the tu	y questions by Yo			By (Signature)			Date/Time Sampled	490/15 1032	1040	1041	0211	1211	2211 /	5211	1126	4211	V 1205		By carefal		
YOUR Information	Company: LANGAN	Address:		Phone No.	Contact Person:	E-Mail Address:	11: -1 - 1 - 10 - 1 d	Fini Clearly and Legioly. All Information must be complete, 8260 full	Samples will NOT be logged in and the turn-around time	clock will not begin until any questions by York are resolved.			Samples Collected/Authorized By (Signature)	Name (printed)	(position) of the control of the con	Sample Identification	HA-6-W2 (2-3) 4	HA-10-WZ (0-1)	HA- 10-WZ (1-2)	MA-22-W2 (6-1)	HA-22-W2 (1-2)	4A-12-W2 (2-3)	HA- 22-W1 (6-1)	MA-22-WI (1-2)	HA-22-W1 (2-3)	13-E2(0-1)	age mments 1515	THE OLD THE ANTHURAGED BY CANGAR	f 49	

of 18 Page 4

> YORK ANALYTICAL LABORATORIES 120 RESEARCH DR.

STRATFORD, CT 06615 FAX (203) 357-0166

Field Chain-of-Custody Record

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York Project No. |5EWID

Temperature Electronic Data Deliverables (EDD) Excel Spreadsheet
Compare to the following Regs. (please fill in): York Regulatory Comparison NJDEP SRP HazSite EDD CT PEEP RSRS Report Type CTRCP DQA/DUE Pkg Summary w/ QA Summary Description(s) Container NY ASP A Package NY ASP B Package NJDEP Red. Deliv. Summary Report CT RCP Package NYSDEC EQuIS EZ-EDD (EQuIS) glass GIS/KEY (std) Simple Excel EQuIS (std) **Turn-Around Time** Choose Analyses Needed from the Menu Above and Enter Below Standard(5-7 Days) Part 360-Rouine | Heterotrophs Flash Point Sieve Anal. Ignitability Reactivity RUSH - Three Day RUSH - Same Day RUSH - Four Day Semi-Vols, PestPCBHerl Metals Misc. Org. Full Lists Misc. RUSH - Next Day Part 360-capatal BTU/lb. RUSH - Two Day Part 360-Beseine TOX NYCDEPSewer TOC TCL Ogenics NYSDECSmer Full App. IX Full TCLP TAL MetCN Air TO14A NY 310-13 TPH GRO TPH DRO TPH 1664 Air STARS Air TO15 TCLP Herb SPLPGTCLP Air VPH Air TICs Methane 2 Purchase Order No. YOUR Project ID 140109003 TAGM list NJDEP list Dissolved Samples from: CT X NY 5//15 17:10 CT15 list PP13 list CT RCP list SPLP or TCIP Total * HOLD * HOUD * HOLD * HOLD signature binds you to York's Std. Terms & Conditions. * Yaco Ascorbic Acid X TOLD * HOLD 4 402D * KOLD TCLP Pest Chlordane 8151Herb Site Spec. SPLP or TCLP BNA 608 Pest 8081Pest App. IX CTRCP STARS list Acids Only NJDEP list TAGM list BN Only TCL list PAH list App. IX Suffolk Co. NJDEP list Oxygenates TCLP list Argenic Ketones Invoice To: Frozen 524.2 Volatiles CT RCP list App.IX list Arom. only TAGM list Halog.only STARS list Print Clearly and Legibly. All Information must be complete. 8260 full MTBE Samples will NOT be logged in and the turn-around time 624 Phone No. Attention: clock will not begin until any questions by York are resolved. DW - drinking water Other - specify(oil, etc.) Address: Date/Time Sampled | Sample Matrix Check those Applicable GW - groundwater Matrix Codes Air-A - ambient air Air-SV - soil vapor Preservation Report To: 12:06 1:45 1:40 (1:43 03:2 12.80 11:21 F: -15:21 Samples Collected/Authorized By (Signature) Phone No. Attention: 1/30/15 Address: Name (printed) YOUR Information Sample Identification LAS COR 3-4 HA- 10-EZ (1-2 HA-13-WZ (0-1 HA-10-EZ (6-1 7 HA-13-N1 (6-1 MA-13-EZ (1-2 HA-13-W2 MA+13-WZ 4A-13-WZ 13-81 HA-(3-N1 Contact Person: Phone No. Address:

on Receipt

Date/Time

Samples Received in LAB by

Date/Time

Samples Relinquished By

Samplap Received By

Date/Time

Samples Relinquished By

Field Filtered Instructions

Page 5 of 18



YORK ANALYTICAL LABORATORIES FIELD
120 RESEARCH DR.
STRATFORD, DT 06615

Fax (203) 357-0166

(203) 325-1371

Field Chain-of-Custody Record

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York Project No. 15E0019

YOUR Information	Report To:	<u>1</u> 0:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type	
Company: CANGAL	. Company:	Company:	¥	7 540 7 10 1	RUSH - Same Day	Summary Report	Î
Address:	Address:	Address:		140104a	RUSH - Next Day	Summary W/ QA Summary	1
				Purchase Order No.	RUSH - Two Day	CTRCP DQA/DUE Pkg	1 1
Phone No.	Phone No.	Phone No.).		RUSH - Three Day	NY ASP A Package	
Contact Person:	Attention:	Attention:			RUSH - Four Day	NY ASP B Package NIDEP Red Deliv	Ê
E-Mail Address:	E-Mail Address:	E-Mail Address:		Samples from: CT NY NJ	Standard(5-7 Days)X	Electronic Data Deliverables (EDD)	1~
Print Clearly and Legibly. All Information must be complete	All Information m	ust be complete	Volatiles	Semi-Vols. PestPCBHerl Metals Misc. Org.	rg. Full Lists Misc.	Simple Excel	
Samples will NOT be loaged in and the turn-ground time	sod in and the tr	use or complete.	8260 full TICs 8270 or 625	8082PCB RCRA8	Pri.Poll.	NYSDEC EQuIS	
clock will not hogin until any austions by Vort are resolved	my amostions by Vo	bedoor and	STARS list Nassau Co.	aly 8151Herb TAL CTETPH	I CL Organs Reactivity I TAL Met CN Ignitability	EQUIS (Std.) FZ-FDD (FOurts)	
n	or do cuoncanh du	in ale resouvea.	BTEX Suffolk Co.	CT RCP CT15 list	Full TCLP	NJDEP SRP HazSite EDD	
		Matrix Codes S- soil	MTBE Ketones PAH list TCL list Oxygenates TAGM list	ist App. IX TAGM list IPH 1664 Llist Site Spec. NJDEP list Air TO14A	4 Full App. IX Sieve Anal. A Part 360-Route Heterotrophs	GIS/KEY (std)	1
Samples Collected/Authorized By (Signature)	(orintensis)	Other - specify(oil, etc.)	TCLP list	list SPLPorTCLP Total	Part 360 Baseine	York Regulatory Comparison	1
	u by (Signature)	GW - groundwater DW - drinking water	Arom. only 502.2	TCLP Pest Dissolved ist TCLP Herb SPLPGTCLP	Part 3604-person No Dough Furns Part 3604-person	Excel Spreadsheet Compare to the following Regs. (please fill in):	
Name (printed)	()	Air-A - ambient air Air-SV - soil vapor	App.IX list	BNA 608 Pest (STBelo) Methane TCI P 608 PCB Halium	NYSDECsoner Asbestos TACM	CTDCEP RSES	
Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses I	led from the Me	ove and Enter Below	Container Description(e)	1
HA-13-N1 (3-4)	4/20/15 1253	S	Arsent	* How		7. 3 glass	
HA- 13- NZ (91)	1254			* How		-	
4A- 13- N2 (1-2)	1285			* HOLD			1
MA - (3- NZ (2.3)	1256			* HOLD			
4A-13-N2 (3-4)	1257			4 Kuch			
WA-13 (1-2)	0251						1
44-13 (2-3)	1321			X KOLD			
HA-13 (3-4)	1322			* KOLD			I
HA- (3- W) (0-1)	1325						
A-13-W2 (1-2)	V 1326	→	->	* Kow		→	1
o mments		Preservation Check those Applicable	4°C Frozen HCI	CI MeOH HNO3	H ₂ SO _← NaOH		1
the analysis until authorited by languan	ented by long an	Special Instructions	14013 Just	7.03		on Receipt	t e
of 4		Field Filtered	Samples Relinquished By	Date/Time		Date/Time	
9			Samples Relinquished By	Date/Time	1 >	2	. v

Page 6 of 18



120 RESEARCH DR.

Fax (203) 357-0166

Field Chain-of-Custody Record YORK ANALYTICAL LABORATORIES STRATFORD, CT 06615

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York Project No. 15£ 60 73

Signature binds you to York's Std. Terms & Conditions.

Type	Summary	JE Pkg	ige	eliverables (EDD)			100	Site EDD	Comparison	Regs. (please fill m):	RSRS	iner inon(s)	2										Temperature	on Receipt	٥ <u>١</u>
Report Type	Summary Report Summary w/ QA Summary	CTRCP DQA/DUE Pkg	NY ASP B Package	Electronic Data Deliverables (EDD)	Simple Excel	NYSDEC EQuIS FOuTS (std)	EZ-EDD (EQuIS)	GIS/KEY (std)	York Regulatory Comparison Excel Spreadsheet	Compare to the following Regs. (please fill in):	CLDEEP	Container Description(s)	202 yluss	A								→		Date/Time	Date/Time
Turn-Around Time	RUSH - Same Day RUSH - Next Day	RUSH - Two Day	RUSH - Four Day	Standard(5-7 Days)	Misc. Org. Full Lists Misc.	O Pri.Poll. Comosivity O TCI Oranis Reactivity	TAL MetCN	Full App. IX Part 360-Routine	S Part 360-Baceire TOX S Part 360-Baceire BTU/Ib. Day Appendix Day App	NYCDEPSewer TOC	NYSDECSener Asbestos TAGM Silica	ove and Enter Below											H ₂ SO _← NaOH	By L	Samples Received in LAB by Da
YOUR Project ID	140109003	Purchase Order No.	ā	Samples from: CT NY NJ	Semi-Vols, PestPCBHert Metals Misc. O	RCRA8	8151Herb TAL	App. IX TAGM list Site Spee. NIDEP list	CT RCP list SPLPorTCLP Total Air TO15 TCL list TCLP Pest Dissolved Air STARS NUDEP list TC1 P Hosh SYR DATT P Air VEH	Chlordane Indiv. Metak	TCLP BNA 608 Pest (LIST Below) Methane SPLP or TCLP 608 PCB Helium	Choose Analyses Needed from the Menu Above and Enter Below		* KOLD	* HOLD	* Hous		* Kow	* YOUD	* Haw	* MOLD		HCI MeOH HNO3	S//(S FLD	
Invoice To:	any:	SZ	ion:	E-Mail Address:	Volatiles	8260 full TICs 624 Site Spec.	STARS list Nassau Co.	MTBE Ketones TCLlist Oxygenates	TAGM list TCLP list CT RCP list 524.2 Arom only 502.2	Halog.only	App.IX list SPLP.crTCLP TCLP BNA 8021B list SPLP.crTCLP		Arsavic		*	1		•	^	7	*	>	4°C Frozen ZnAc	Samples Relinquished By	Samples Relinquished By
O:	Company:	oN anoth	Attention:	E-Mai	La goment	ist be complete.	-	Matrix Codes S - soil	Other - specify(oil, etc.) WW - wastewater GW - groundwater		Air-SV - soil vapor	Sample Matrix	N									→	Preservation Check those Applicable	Special Instructions Field Filtered	Lab to Filter
Report To:	Company:	Phone No	Attention:	E-Mail Address:	All Information	sed in and the tu	ny questions by You		d By (Signature))	Date/Time Sampled	Alad15 1350	(35)	1355	(353	1354	1385	9551	1357	1420	1241		orized by langan	
YOUR Information	Company: CANGAN Address:	Phone No.	Contact Person:	E-Mail Address:	Duint Clounky and I with.	Samples will NOT be logged in and the turn-around time	clock will not begin until any questions by York are resolved.		Samples Collected/Authorized By (Signature)		Name (printed)	Sample Identification	MA-B-S1 (0-1)	HA-13-51 (1-2)	4A-13-51 (2-3)	44-13-51 (3-4)	HA-13- F 1 (0-1)	HA-13-E1 (1-2)	HA- 13-E1 (2-3)	HA-13-E1 (3-4)	HA-13-52 (0-1)	(2-) 25-81	E Page	\$ 510 anothers until authorized by langan	49



YORK ANALYTICAL LABORATORIES

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York Project No. 15£6073

Page 7 of 18

4.0°C **Temperature** on Receipt Electronic Data Deliverables (EDD) York Regulatory Comparison NJDEP SRP HazSite EDD CTRCP DQA/DUE Pkg Report Type Summary w/ QA Summary CTYDEP RSAS Description(s) NY ASP A Package NY ASP B Package NJDEP Red. Deliv. Summary Report CT RCP Package NYSDEC EQuIS EZ-EDD (EQuIS) Excel Spreadsheet 9655 GIS/KEY (std) Simple Excel EQuIS (std) Date/Time Choose Analyses Needed from the Menu Above and Enter Below **Turn-Around Time** Standard(5-7 Days) Part 360-Routine Heterotrophs Flash Point Sieve Anal. Samples Repoived in LAB by Reactivity Part 3604 yearse BTU/Ib.
Part 3604 yearse Aquatic To RUSH - Three Day RUSH - Same Day Misc. Org. Full Lists Misc. RUSH - Next Day RUSH - Four Day RUSH - Two Day TOX Samples Received By TCL Ognis Part 360-Breeine NYCDEP Sewer NYSDECsour Full App. IX TAL MetCN Full TCLP TPH DRO NY 310-13 Air TO14A TPH GRO Air STARS TPH 1664 Air TO15 TCLP Herb SPLPG/TCLP Air VPH Air TICs Methane Purchase Order No. Samples from: CT NY NJ YOUR Project ID Metals NJDEP list 140109003 TAGM list Dissolved 5/1/15 17:10 CT15 list PP13 list CT RCP list SPLP or TCLP Total Date/Time Ascorbic Acid Semi-Vols. PeatPCB/Herb 8270 or 625 8082PCB TCLP Pest Chlordane 8151Herb Site Spec. 8081Pest App.IX list SPLP or TCLP TCLP BNA 608 Pest CTRCP App. IX * HOLD A SOLD * HOLD * TOLD * KOUD ひをメ からと STARS list Acids Only IAGM list NJDEP list TCL list BN Only App. IX PAH list Samples Relinquished By Samples Refinquished By Suffolk Co. NJDEP list Nassau Co. Oxygenates TCLP list Site Spec. Ketones Invoice To: Frozen CT RCP list 524.2 Arom. only 502.2 Arsenic Volatiles STARS list TAGM list Halog.only Print Clearly and Legibly. All Information must be complete. 8260 full MTBE Samples will NOT be logged in and the turn-around time 624 Phone No. Other - specify(oil, etc.) Attention: clock will not begin until any questions by York are resolved. DW - drinking water Address: Date/Time Sampled | Sample Matrix Check those Applicable GW - groundwater Matrix Codes WW - wastewater Air-A - ambient air Air-SV - soil vapor Field Filtered Preservation Instructions Report To: 1443 1447 1422 1423 1440 205) 180 747 1505 1501 A but analysis outel authorized by being one Samples Collected/Authorized By (Signature) Phone No. Attention: Address: Name (printed) (3-4) YOUR Information Sample Identification 2-3 HA-13-52 (3-4) HA-22-NI (0-1) HA-22-NI (1-2) HA-22- SI (6-1 てなからなり HA - 13-52 (2-3) HA- 22- NI MA - 22 - NI 4A-22 (3-4) A-22 (2-3 15 Contact Person: E-Mail Address: Phone No.

Page 8 of 18



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York Project No. | 5EW #

Report Type	A Summary	OUE Pkg	Kage	eliv.	Electronic Data Deliverables (EDD)		SI		S)	777		v Comparison	ig Regs. (please fill in):	, 45ks	Container	(chicago										Tomorati	on Receipt	4.00	
	Summary Report Summary w/ QA Summary	CTRCP DQA/DUE Pkg	NY ASP A Package	NJDEP Red. Deliv.	Electronic Data	Simple Excel	NYSDEC EQuIS	EQuIS (std)	EZ-EDD (EQuIS)	GIS/KEY (std)	Other	York Regulatory Comparison	Compare to the following Regs. (please fill in)	CTDEEF		700 por	0								>			Date/Time	Date/Time
Turn-Around Time	RUSH - Same Day RUSH - Next Day	RUSH - Two Day	RUSH - Three Day	RUSH - Four Day	Standard(5-7 Days)	Misc. Org. Full Lists Misc.		10	TAL MetCN Ignitability Full TCLP Flash Point	Full App. IX	Part 360-Routine Heterotrophs	Part 360-Equated BTU/lb.	Part 360-typeses Aquatic Tox.	NYSDECsewer Asbestos	ve and Enter Below						-					H ₂ SO _← NaOH		1	Samples Received in LAB by
oject ID	140108003	Purchase Order No.			Samples from: CT NY NJ	Semi-Vols, Pest/PCB/Herld Metals Misc. Org	8082PCB RCRA8	8081Pest PP13 list	8151Herb TAL CT ETPH / CT RCP CT 15 list NY 310-13	App. IX TAGM list	Site Spec. NJDEP list Air TO14A	TCLP Pest Dissolved	TCLP Herb SPLPGTCLP	608 Pest CIST Belon	Choose Analyses Needed from the Menu Above and Enter Below		* Kold	A Hoth	* KOLD		4-0	* How	Y Hay		Ø2011 ★	Ascorbic Acid Other	011		Date/Time Samples F
Invoice To: YOUR Pr						Volatiles	8260 full TICs	624 Site Spec.	STARS list Nassau Co. BN Only BTEX Suffolk Co. Acids Only	Ketones	TCL list Oxygenates TAGM list TAGM list TCT P list CT RCP list	1 524.2	Arom, only 502.2 NJDEP list	App.IX list SPLPorTCLP	Choose Analyses Nec	Arcource	Ì	*	*		×	*	*		**	4°C Frozen HCI	10,21ml	Samples Relinquished By	Samples Relinquished By
	Company:		Phone No.	Attention:	E-Mail Address:	net he complete	usi ve compiete.	rn-around time	rk are resolved.	Mai	S - soil Other - specify(oil, etc.)	WW - wastewater	GW - groundwater DW - drinking water		Sample Matrix	S		_					_		↑	Preservation Check those Applicable	Special	Field Filtered	
Report To:	Company: Address:		Phone No.	Attention:	E-Mail Address:	All Information m	m nonminofin in	ged in and the tu	iny questions by Yo			ed By (Signature)		(p	Date/Time Sampled	4/30/15 1605		409)	8091	529!	069)	(63)	7597	(645	9491		wherzed		
YOUR Information	Company: CANGAAN Address:	n.	Phone No.	Contact Person:	E-Mail Address:	Print Clearly and Louisly, 411 Information must be complete	Committee will MOT L. I	samples will Ivol be logged in and the turn-around time	clock will not begin until any questions by York are resolved.			Samples Collected/Authorized By (Signature)		Name (printed)	Sample Identification	HA-10-N1 (6-1)	HA- 10-NI (1-2)	RA-10- NI (2-3)	HA - W- NI (3-4)	HA-10-WI (0-1)	HA-10 (1-2)	HA-10 (2-3)	HA-10 (3-4)	HA-10- E1 (6-1)	14-10- E1 (1-2)	a puments	4 tous Analysis until authorized	of 49	.

Page 9 of 18



YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
5TRATFORD, CT 06615
(203) 325-1371
FAX (203) 355-0166 T.

Field Chain-of-Custody Record

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York Project No. 1550073

YOUR Information	Report To:	<u>.</u> آو:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type
					PITETT Come Dec.	Summary Report
Company: CANGAL	Company:	Company:		(40109003	RUSH - Next Day	Summary w/ QA Summary
Address:	Address:	Address:			BIISH - Two Day	CT RCP Package
Phone No.	Phone No.	Phone No		Furchase Order No.	RUSH - Three Day	NY ASP A Package
Contact Person:	Attention:	Attention:			RUSH - Four Day	NY ASP B Package
E-Mail Address:	F-Mail Address:	F-Mail Addrase		Samples from: CTX NY NJ	Standard(5-7 Days)	NJDEF Ked. Deliv. Electronic Data Deliverables (EDD)
Daint Classic and I will.	III To former at	Table State	Volatiles	Semi-Vols, Pest/PCBHerld Metals Misc. Org.	g. Full Lists Misc.	Simple Excel
from Clearly and Legiony. All Information must be complete.	an information m.	ust ve complete.	8260 full TICs	RCRA8	-	NYSDEC EQuIS
Samples will NOT be logged in and the turn-around time	ed in and the tu	rn-around time	624 Site Spec.	st 8081Pest PP13 list	TCL Ognis	EQuIS (std)
clock will not begin until any questions by York are resolved.	ty questions by Yo	rk are resolved.	STARS list Nassau Co. BTEX Suffolk Co.	BN Only 8151Herb TAL CT ETPH Acids Only CT RCP CT 15 list NY 310-13	TAL MetCN Ignitability 3 Full TCLP Flash Point	EZ-EDD (EQuIS)
		Matrix Codes	Ketones	App. IX TAGM list		GIS/KEY (std)
		S - soil Other specifical gov	TCL list Oxygenates	P list		Other
Samples Collected/Authorized By (Signature)	By (Signature)	WW - wastewater GW - groundwater	CT RCP list 524.2 Arom only 502.2	TCL list TCLP Pest Dissolved Air YPH NJDEP list TCLP Perh SPI PortYTP Air VPH	Part 3604-yearsh BTU/Ib. Part 3604-yearsh BTU/Ib. Part 3604-yearsh BTU/Ib.	York Regulatory Comparison Excel Spreadsheet
			Halog.only	Chlordane	NYCDEPseng TOC	Compare to the rottowing kegs, (piease fill m.):
Name (printed)		Air-A - ambient air Air-SV - soil vapor	App.IX list SPLP or TCLP BNA 802 1B list SPLP or TCLP	TCLP BNA 608 Pest CIST Below Methane SPI Por TCLP 608 PCR	NYSDECseme Asbestos TAGM Silica	CT DEEP RSRS
Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses	om the Me	ove and Enter Below	Container Description(s)
HA-10-E1 (2-3)	4/20/15 1647	٠ <u>٠</u> ٠	Arsenic	* Kow		2002 gluss
HA-10- ES (3-4)	(648		_	* HOLD)
HA-16-51 (0-1)	ooti					
NA-10-51 (1-2)	1501			*HOLD		
44-10-51 (2-3)	202)		·	* How		
HA-10-51 (3-4)	(703)		6	* HOUD		
HA-10-52 (0-1)	Sop !			* Haro		
HA-10-52 (1-2)	1706			A hote		
HA-10-52 (2-3)	1707		,	Krow		
-10-52 (3-4	\$041	→	>			7
a pmments yes		Preservation Check those Applicable	4°C Frozen B	HCI McOH HNO3	H ₂ SO ₊ NaOH	Temperature
A CONSTRUCTION OF LANGER OF LANGER	BY LANGAR	Special Instructions	- HOZBUR	5/15 17:00		on Receipt
of 49		Field Filtered	Samples Relinquished By	Date/Time	1 2	Date/Time 4.0 °C
9			Samples Relinquished By	Date/Time	Samples Received in LAB by Da	Date/Time

Page to of 18

YORK ANALYTICAL LABORATORIES STRATFORD, CT 06615 120 RESEARCH DR.

FAX (203) 357-0166

Field Chain-of-Custody Record

This document serves as your written authorization to York to proceed with the analyses requested and your NOTE: York's Std. Terms & Conditions are listed on the back side of this document. signature binds you to York's Std. Terms & Conditions.

York Project No. 15 FCO (2)

Temperature on Receipt Electronic Data Deliverables (EDD) York Regulatory Comparison CEDET RSAS NJDEP SRP HazSite EDD CTRCP DQA/DUE Pkg. Report Type Summary w/ QA Summary Description(s) Container NY ASP A Package NY ASP B Package NJDEP Red. Deliv. Summary Report CT RCP Package NYSDEC EQuIS EZ-EDD (EQuIS) Excel Spreadsheet Samples Received By Date/Time GIS/KEY (std) Simple Excel EQuIS (std) 100 **Turn-Around Time** Choose Analyses Needed from the Menu Above and Enter Below Standard(5-7 Days)X Part 360-Routine Heterotrophs Flash Point Sieve Anal. gnitability RUSH - Same Day RUSH - Three Day Part 3604, constel BTU/Ib. Samples Received in LAB by RUSH - Next Day RUSH - Four Day NYSDEC'sover Asbestos RUSH - Two Day Part 360-Breeline TOX NYCOPSens TOC Semi-Vols, Pest/PCBHert Metals Misc. Org. Full Lists TCL Ognics TAL MetCN Full TCLP Full App. IX NY 310-13 Air TO14A TPH DRO TPH 1664 Air TO15 **Air STARS** TCLP Herb SPLPorTCLP Air VPH Indiv. Metals | Air TICs Methane Samples from: CTX NY NJ Purchase Order No. YOUR Project ID NJDEP list 140109003 TAGM list Dissolved (IST Below) PP13 list CT15 list 2/15 CAO RCRA8 SPLP or TCLP Total Date/Time Ascorbic Acid TCLP Pest X 502 Chlordane * FOCD 8082PCB 8151Herb Site Spec. A Kesp 水石之 X 200 8081Pest CT RCP App. IX 大多品 X LOD SPLP or TCLP TCLP BNA 608 Pest CT RCP list NJDEP list STARS list Acids Only TAGM list BN Only TCL list Samples Relinquished By PAH list App. IX Samples Relinquished By Suffolk Co. NJDEP list Nassau Co. Oxygenates TCLP list Site Spec. Ketones Invoice To: Frozen Arsent 502.2 CT RCP list 524.2 Volatiles Arom. only App.IX list STARS list TAGM list Halog.only Print Clearly and Legibly. All Information must be complete. 8260 full E-Mail Address: Samples will NOT be logged in and the turn-around time 624 Company: Phone No. Attention: clock will not begin until any questions by York are resolved. DW - drinking water Other - specify(oil, etc.) Address: Sample Matrix Check those Applicable GW - groundwater Matrix Codes WW - wastewater Air-A - ambient air Air-SV - soil vapor Preservation Field Filtered Instructions Report To: Date/Time Sampled 1746 1743 1737 135 (4t) ナヤ 1800 1862 1081 Samples Collected/Authorized By (Signature) E-Mail Address: 4/30/15 Attention: Phone No. Company: Address: MUSELZED BY LANGAN Date ANACYSIS UPTICE Name (printed) YOUR Information Sample Identification HA-6- NI (3-4) 44-6-N1 (0-1) HA-6-N1 (1-2) MA-6-NI (2-3 HA-6-SI (0-1 18-5-4H VANGAN MA-6 (3-4) 44-6 (2-3) HA-6 (5-2) 18-8-81 E-Mail Address: Contact Person: Company: Phone No. Address: of 49



Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive New Haven CT, 06511

Attention: Ryan Wohlstrom

Report Date: 07/09/2015

Client Project ID: 140109003

York Project (SDG) No.: 15E0078

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

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 1 of 35

Report Date: 07/09/2015 Client Project ID: 140109003 York Project (SDG) No.: 15E0078

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive New Haven CT, 06511 Attention: Ryan Wohlstrom

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 May 01, 2015 and listed below. The project was identified as your project: 140109003.

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.

York Sample ID	Client Sample ID	<u>Matrix</u>	Date Collected	Date Received
15E0078-02	HA-21 (2-3)	Soil	04/30/2015	05/01/2015
15E0078-04	HA-21-S1 (0-1)	Soil	04/30/2015	05/01/2015
15E0078-08	HA-21-N1 (0-1)	Soil	04/30/2015	05/01/2015
15E0078-09	HA-21-N1 (1-2)	Soil	04/30/2015	05/01/2015
15E0078-10	HA-21-N1 (2-3)	Soil	04/30/2015	05/01/2015
15E0078-12	HA-5(1-2)	Soil	04/30/2015	05/01/2015
15E0078-14	HA-21-N2 (0-1)	Soil	04/30/2015	05/01/2015
15E0078-15	HA-21-N2 (1-2)	Soil	04/30/2015	05/01/2015
15E0078-18	HA-5-N2 (0-1)	Soil	04/30/2015	05/01/2015
15E0078-19	HA-5-N2 (1-2)	Soil	04/30/2015	05/01/2015
15E0078-20	HA-5-N2 (2-3)	Soil	04/30/2015	05/01/2015
15E0078-22	HA-5-N1 (0-1)	Soil	04/30/2015	05/01/2015
15E0078-23	HA-5-N1 (1-2)	Soil	04/30/2015	05/01/2015
15E0078-24	HA-5-N1 (2-3)	Soil	04/30/2015	05/01/2015
15E0078-26	HA-5-E2 (0-1)	Soil	04/30/2015	05/01/2015
15E0078-27	HA-5-E2 (1-2)	Soil	04/30/2015	05/01/2015
15E0078-28	HA-5-E2 (2-3)	Soil	04/30/2015	05/01/2015
15E0078-30	HA-5-E1 (0-1)	Soil	04/30/2015	05/01/2015
15E0078-31	HA-5-E1 (1-2)	Soil	04/30/2015	05/01/2015
15E0078-34	HA-5-S1 (0-1)	Soil	04/30/2015	05/01/2015
15E0078-35	HA-5-S1 (1-2)	Soil	04/30/2015	05/01/2015
15E0078-36	HA-5-S1 (2-3)	Soil	04/30/2015	05/01/2015
15E0078-42	HA-8-S1 (0-1)	Soil	05/01/2015	05/01/2015

York Sample ID	Client Sample ID	<u>Matrix</u>	Date Collected	Date Received
15E0078-46	HA-8-N1 (0-1)	Soil	05/01/2015	05/01/2015
15E0078-54	HA-8-E1 (0-1)	Soil	05/01/2015	05/01/2015
15E0078-62	HA-8-W1 (0-1)	Soil	05/01/2015	05/01/2015
15E0078-70	HA-8 (1-2)	Soil	05/01/2015	05/01/2015

General Notes for York Project (SDG) No.: 15E0078

- 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: 07/09/2015

Benjamin Gulizia Laboratory Director





<u>Client Sample ID:</u> HA-21 (2-3) <u>York Sample ID:</u> 15E0078-02

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0078140109003SoilApril 30, 2015 6:11 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RL CAS No. Result Flag Units Dilution Reference Method Analyzed Parameter Prepared Analyst 05/06/2015 09:23 7440-38-2 1.81 1.18 EPA 6010C 05/06/2015 12:22 MW mg/kg dry Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RLReference Method Parameter Units Dilution Analyzed Analyst solids % 0.100 SM 2540G 05/06/2015 17:14 05/07/2015 13:29 % Solids 84.6

Sample Information

<u>Client Sample ID:</u> HA-21-S1 (0-1) <u>York Sample ID:</u> 15E0078-04

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0078140109003SoilApril 30, 2015 6:25 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLDilution CAS No. Parameter Result Flag Units Reference Method Analyzed Prepared Analyst 05/06/2015 09:23 05/06/2015 12:26 EPA 6010C 7440-38-2 Arsenic 4.45 mg/kg dry 1 20 MW

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL. CAS No. Parameter Result Units Dilution Reference Method Prepared Analyst solids % 0.100 SM 2540G 05/06/2015 17:14 05/07/2015 13:29 % Solids 83.4

Sample Information

<u>Client Sample ID:</u> HA-21-N1 (0-1) <u>York Sample ID:</u> 15E0078-08

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0078140109003SoilApril 30, 20156:40 pm05/01/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 4 of 35



HA-21-N1 (0-1) **Client Sample ID:** York Sample ID: 15E0078-08

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 05/01/2015

140109003 Soil April 30, 2015 6:40 pm 15E0078

Sample Prepared by Method: EPA 3050B

CAS N	lo.	Parameter	Result	Flag U	J nits	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		84.0	m	ıg/kg drv	1.12	1	EPA 6010C	05/06/2015 09:23	05/06/2015 12:44	MW

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RLDilution Units Reference Method CAS No. Parameter Result Flag Prepared Analyzed Analyst % solids % Solids 89.5 0.100 SM 2540G 05/06/2015 17:14 05/07/2015 13:29 KK

Sample Information

Client Sample ID: HA-21-N1 (1-2) York Sample ID: 15E0078-09

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 05/01/2015 15E0078 140109003 Soil April 30, 2015 6:41 pm

Arsenic by EPA 6010 **Log-in Notes: Sample Notes:**

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time Result RLCAS No. Units Dilution Reference Method Analyzed Parameter Flag Analyst Prepared 7440-38-2 EPA 6010C 05/15/2015 09:11 05/15/2015 10:57 16.4 mg/kg dry 1 14 MW Arsenic

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time Parameter Result Units RL Dilution Reference Method Analyzed Analyst Prepared % 0.100 SM 2540G 05/15/2015 11:29 05/15/2015 16:23 solids % Solids 87.9

Sample Information

HA-21-N1 (2-3) York Sample ID: 15E0078-10 **Client Sample ID:**

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 15E0078 140109003 Soil April 30, 2015 6:42 pm 05/01/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLDilution Units Reference Method Analyzed CAS No Result Flag Parameter Prepared Analyst 05/27/2015 19:12 1 21 EPA 6010C 05/27/2015 15:04 MW 7440-38-2 3.31 mg/kg dry Arsenic

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 5 of 35

Data/Time

Data/Time



Client Sample ID: HA-21-N1 (2-3) **York Sample ID:**

15E0078-10

York Project (SDG) No. 15E0078

Client Project ID

Matrix

Collection Date/Time

Date Received

140109003

Soil

April 30, 2015 6:42 pm

05/01/2015

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS N	lo.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		82.6		%	0.100	1	SM 2540G	05/27/2015 09:12	05/27/2015 16:38	KK

Sample Information

Client Sample ID: HA-5(1-2) **York Sample ID:**

15E0078-12

York Project (SDG) No. 15E0078

Client Project ID 140109003

Matrix Soil

Collection Date/Time April 30, 2015 6:55 pm Date Received 05/01/2015

Arsenic by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	_	9.15	•	mg/kg dry	1.17	1	EPA 6010C	05/06/2015 09:23	05/06/2015 12:49	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
solids	% Solids		85.1		%	0.100	1	SM 2540G	05/04/2015 20:44	05/05/2015 15:58	SCA

Sample Information

Client Sample ID: HA-21-N2 (0-1) York Sample ID:

15E0078-14

York Project (SDG) No. 15E0078

Client Project ID 140109003

Matrix Soil

Collection Date/Time April 30, 2015 7:00 pm Date Received 05/01/2015

Arsenic by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		132		mg/kg dry	1.15	1	EPA 6010C	05/15/2015 09:11	05/15/2015 11:02	MW

Log-in Notes: Sample Notes: Total Solids

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 6 of 35



<u>Client Sample ID:</u> HA-21-N2 (0-1) <u>York Sample ID:</u> 15E0078-14

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0078140109003SoilApril 30, 2015 7:00 pm05/01/2015

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		87.3		%	0.100	1	SM 2540G	05/15/2015 11:29	05/15/2015 16:23	SCA

Sample Information

<u>Client Sample ID:</u> HA-21-N2 (1-2) <u>York Sample ID:</u> 15E0078-15

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0078140109003SoilApril 30, 20157:01 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS I	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		3.95		mg/kg dry	1.19	1	EPA 6010C	05/27/2015 15:04	05/27/2015 19:16	MW

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		83.9		%	0.100	1	SM 2540G	05/27/2015 09:12	05/27/2015 16:38	KK

Sample Information

<u>Client Sample ID:</u> HA-5-N2 (0-1) <u>York Sample ID:</u> 15E0078-18

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0078140109003SoilApril 30, 20157:20 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Date/Time Analyzed	Analyst
7440-38-2 A	rsenic	72.3		mø/kø dry	1.20	1	EPA 6010C	05/15/2015 09:11	05/15/2015 11:06	MW

<u>Total Solids</u> <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		83.2		%	0.100	1	SM 2540G	05/15/2015 11:29	05/15/2015 16:23	SCA

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 7 of 35



<u>Client Sample ID:</u> HA-5-N2 (0-1) <u>York Sample ID:</u> 15E0078-18

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0078140109003SoilApril 30, 2015 7:20 pm05/01/2015

Sample Information

<u>Client Sample ID:</u> HA-5-N2 (1-2) <u>York Sample ID:</u> 15E0078-19

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0078140109003SoilApril 30, 2015 7:21 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

RLResult Flag Units Dilution Reference Method **Parameter** Prepared Analyzed Analyst 05/27/2015 15:04 7440-38-2 17.8 mg/kg dry 1.22 EPA 6010C 05/27/2015 19:34 MW Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RLDilution CAS No. Parameter Result Flag Units Reference Method Analyzed Prepared Analyst % 0.100 SM 2540G 05/27/2015 09:12 05/27/2015 16:38 solids KK % Solids 82.0

Sample Information

<u>Client Sample ID:</u> HA-5-N2 (2-3) <u>York Sample ID:</u> 15E0078-20

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0078
 140109003
 Soil
 April 30, 2015
 7:22 pm
 05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLCAS No. Parameter Result Flag Units Dilution Reference Method Analyzed Analyst Prepared 7440-38-2 mg/kg dry 1.19 EPA 6010C 07/08/2015 08:55 07/08/2015 11:33 Arsenic 3.07

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL Dilution CAS No. Parameter Result Flag Units Reference Method Prepared Analyzed Analyst SM 2540G 07/08/2015 11:00 07/08/2015 15:22 solids % Solids 83.8 % 0.100 SCA

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<mark>7-0166</mark>

Page 8 of 35

Date/Time

Date/Time



<u>Client Sample ID:</u> HA-5-N1 (0-1) <u>York Sample ID:</u> 15E0078-22

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0078
 140109003
 Soil
 April 30, 2015
 7:25 pm
 05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLParameter Units Dilution Reference Method Analyzed Prepared 7440-38-2 174 mg/kg dry 1.19 EPA 6010C 05/06/2015 09:23 05/06/2015 12:53 Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL Dilution Reference Method <u>Analyze</u>d Result Flag Units Analyst Parameter Prepared SM 2540G 05/04/2015 20:44 05/05/2015 15:58 % 0.100 solids % Solids 84.3 SCA

Sample Information

<u>Client Sample ID:</u> HA-5-N1 (1-2) <u>York Sample ID:</u> 15E0078-23

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0078
 140109003
 Soil
 April 30, 2015 7:26 pm
 05/01/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time CAS No. Result Units RL. Dilution Reference Method Analyzed Parameter Prepared Analyst 7440-38-2 13.7 mg/kg dry 1.35 EPA 6010C 05/15/2015 09:11 05/15/2015 11:11 MW Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL **Dilution** Result Flag Units Reference Method CAS No. Parameter Prepared Analyzed Analyst solids % Solids 74.1 % 0.100 SM 2540G 05/15/2015 11:29 05/15/2015 16:23 SCA

Sample Information

<u>Client Sample ID:</u> HA-5-N1 (2-3) <u>York Sample ID:</u> 15E0078-24

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0078140109003SoilApril 30, 20157:27 pm05/01/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 9 of 35



<u>Client Sample ID:</u> HA-5-N1 (2-3) <u>York Sample ID:</u> 15E0078-24

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0078
 140109003
 Soil
 April 30, 2015
 7:27 pm
 05/01/2015

Sample Prepared by Method: EPA 3050B

CAS	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		5 13		mg/kg dry	1 24	1	EPA 6010C	05/27/2015 15:04	05/27/2015 19:42	MW

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS No		Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		80.5		%	0.100	1	SM 2540G	05/27/2015 09:12	05/27/2015 16:38	KK

Sample Information

<u>Client Sample ID:</u> HA-5-E2 (0-1) <u>York Sample ID:</u> 15E0078-26

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0078140109003SoilApril 30, 2015 7:40 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag Unit	s RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2 Arsenic		22.4	mg/kg	dry 1.24	1	EPA 6010C	05/15/2015 09:11	05/15/2015 11:19	MW

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS	No.	Parameter	Result	Flag Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		80.8	%	0.100	1	SM 2540G	05/15/2015 11:29	05/15/2015 16:23	SCA

Sample Information

<u>Client Sample ID:</u> HA-5-E2 (1-2) <u>York Sample ID:</u> 15E0078-27

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0078140109003SoilApril 30, 20157:41 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		11.2		mg/kg dry	1.26	1	EPA 6010C	05/27/2015 15:04	05/27/2015 19:46	MW

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 10 of 35



<u>Client Sample ID:</u> HA-5-E2 (1-2) <u>York Sample ID:</u> 15E0078-27

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0078
 140109003
 Soil
 April 30, 2015
 7:41 pm
 05/01/2015

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag Uni	ts RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		79.5	%	0.100	1	SM 2540G	05/27/2015 09:12	05/27/2015 16:38	KK

Sample Information

<u>Client Sample ID:</u> HA-5-E2 (2-3) <u>York Sample ID:</u> 15E0078-28

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0078
 140109003
 Soil
 April 30, 2015
 7:42 pm
 05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		4.00		mg/kg dry	1.21	1	EPA 6010C	06/01/2015 15:44	06/01/2015 21:07	AMC

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		82.9		%	0.100	1	SM 2540G	06/01/2015 19:09	06/02/2015 14:36	KK

Sample Information

<u>Client Sample ID:</u> HA-5-E1 (0-1) <u>York Sample ID:</u> 15E0078-30

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0078140109003SoilApril 30, 20157:44 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2 A	Arsenic	37.1		mg/kg dry	1.21	1	EPA 6010C	05/06/2015 09:23	05/06/2015 12:58	MW

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>



Client Sample ID: HA-5-E1 (0-1) **York Sample ID:** 15E0078-30

Date Received York Project (SDG) No. Client Project ID Matrix Collection Date/Time 15E0078 05/01/2015

140109003 Soil April 30, 2015 7:44 pm

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag Uni	s RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		82.9	%	0.100	1	SM 2540G	05/04/2015 20:44	05/05/2015 15:58	SCA

Sample Information

Client Sample ID: HA-5-E1 (1-2) York Sample ID: 15E0078-31

York Project (SDG) No. Client Project ID Collection Date/Time Matrix Date Received 15E0078 140109003 Soil April 30, 2015 7:45 pm 05/01/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS No).	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		5.21		mg/kg dry	1.21	1	EPA 6010C	05/15/2015 09:11	05/15/2015 11:24	MW

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		82.6		%	0.100	1	SM 2540G	05/15/2015 11:29	05/15/2015 16:23	SCA

Sample Information

Client Sample ID: HA-5-S1 (0-1) **York Sample ID:** 15E0078-34

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 140109003 15E0078 Soil April 30, 2015 8:00 pm 05/01/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS No).	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		12.8		mø/kø dry	1 18	1	EPA 6010C	05/06/2015 09:23	05/06/2015 13:03	MW

Total Solids **Log-in Notes: Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS N	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		84.4		%	0.100	1	SM 2540G	05/04/2015 20:44	05/05/2015 15:58	SCA

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 12 of 35

D-4-/T:---



<u>Client Sample ID:</u> HA-5-S1 (0-1) <u>York Sample ID:</u> 15E0078-34

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0078
 140109003
 Soil
 April 30, 2015
 8:00 pm
 05/01/2015

Sample Information

<u>Client Sample ID:</u> HA-5-S1 (1-2) <u>York Sample ID:</u> 15E0078-35

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15E0078140109003SoilApril 30, 20158:01 pm05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLResult Flag Units Dilution Reference Method **Parameter** Prepared Analyzed Analyst 05/15/2015 09:11 7440-38-2 10.3 mg/kg dry 1.22 EPA 6010C 05/15/2015 11:29 MW Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RLDilution CAS No. Parameter Result Flag Units Reference Method Analyzed Prepared Analyst % 0.100 SM 2540G 05/15/2015 11:29 05/15/2015 16:23 solids SCA % Solids 81.7

Sample Information

<u>Client Sample ID:</u> HA-5-S1 (2-3) <u>York Sample ID:</u> 15E0078-36

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0078
 140109003
 Soil
 April 30, 2015
 8:02 pm
 05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLCAS No. Parameter Result Flag Units Dilution Reference Method Analyzed Analyst Prepared 7440-38-2 mg/kg dry 1.20 EPA 6010C 05/27/2015 15:04 05/27/2015 19:51 Arsenic 3.23

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL Dilution CAS No. Parameter Result Flag Units Reference Method Prepared Analyzed Analyst SM 2540G 05/27/2015 09:12 05/27/2015 16:38 solids % Solids 83.4 % 0.100 KK

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 13 of 35



<u>Client Sample ID:</u> HA-8-S1 (0-1) <u>York Sample ID:</u> 15E0078-42

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0078
 140109003
 Soil
 May 1, 2015 12:50 pm
 05/01/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLParameter Units Dilution Reference Method Analyzed Prepared 7440-38-2 2.94 mg/kg dry EPA 6010C 05/06/2015 09:23 05/06/2015 13:08 Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL Dilution Reference Method <u>Analyze</u>d Result Flag Units Analyst Parameter Prepared SM 2540G 05/04/2015 20:44 05/05/2015 15:58 % 0.100 solids % Solids 86.3 SCA

Sample Information

<u>Client Sample ID:</u> HA-8-N1 (0-1) <u>York Sample ID:</u> 15E0078-46

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0078
 140109003
 Soil
 May 1, 2015 12:55 pm
 05/01/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time CAS No. Result Units RL. Dilution Reference Method Analyzed Parameter Prepared Analyst 7440-38-2 5.37 mg/kg dry 1.07 EPA 6010C 05/06/2015 09:23 05/06/2015 13:28 MW Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL **Dilution** Reference Method Result Flag Units CAS No. Parameter Prepared Analyzed Analyst solids % Solids 93.4 % 0.100 SM 2540G 05/04/2015 20:44 05/05/2015 15:58 SCA

Sample Information

<u>Client Sample ID:</u> HA-8-E1 (0-1) <u>York Sample ID:</u> 15E0078-54

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0078
 140109003
 Soil
 May 1, 2015 1:05 pm
 05/01/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 14 of 35



HA-8-E1 (0-1) **Client Sample ID:** York Sample ID: 15E0078-54

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received

140109003 Soil May 1, 2015 1:05 pm 05/01/2015 15E0078

Data/Time

Data/Time

Sample Prepared by Method: EPA 3050B

CAS N	lo.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		7.88		mg/kg dry	1.14	1	EPA 6010C	05/06/2015 09:23	05/06/2015 13:33	MW

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RLDilution Units Reference Method CAS No. Parameter Result Flag Prepared Analyzed Analyst % solids % Solids 87.5 0.100 SM 2540G 05/04/2015 20:44 05/05/2015 15:58 SCA

Sample Information

Client Sample ID: HA-8-W1 (0-1) York Sample ID: 15E0078-62

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 05/01/2015 15E0078 140109003 Soil May 1, 2015 1:15 pm

Log-in Notes: Arsenic by EPA 6010 **Sample Notes:**

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLCAS No. Result Units Dilution Reference Method Parameter Flag Analyzed Analyst Prepared 7440-38-2 EPA 6010C 05/06/2015 09:23 05/06/2015 13:38 9.29 mg/kg dry 1 26 MW Arsenic

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time Parameter Result Units RL Dilution Reference Method Analyzed Analyst Prepared % 0.100 SM 2540G 05/04/2015 20:44 05/05/2015 15:58 solids % Solids 79.5

Sample Information

HA-8 (1-2) York Sample ID: 15E0078-70 **Client Sample ID:**

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 15E0078 140109003 Soil May 1, 2015 1:25 pm 05/01/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLDilution Units Reference Method Analyzed CAS No Result Flag Analyst Parameter Prepared 05/06/2015 13:42 1.07 EPA 6010C 05/06/2015 09:23 MW 7440-38-2 9.32 mg/kg dry Arsenic

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 15 of 35



<u>Client Sample ID:</u> HA-8 (1-2) <u>York Sample ID:</u> 15E0078-70

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15E0078
 140109003
 Soil
 May 1, 2015 1:25 pm
 05/01/2015

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS No).	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	solids	% Solids		93.8		%	0.100	1	SM 2540G	05/04/2015 20:44	05/05/2015 15:58	SCA

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 16 of 35



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: York Analytical Laboratories, Inc. Client: Langan Engineering & Environmental Serv

Project Location: 140109003 Lab Project No.: 15E0078

Laboratory Sample ID(s): 15E0078-02 - 15E0078-70 Sampling Date(s): 04/30/2015 - 05/01/2015

RCP Methods Used: See Narrative and Method Reference Section of this Technical Report

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

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

This form may not be altered and all questions must be answered.

I, the	unders	signe	d, attest	under th	ne pai	ns an	d penalties	of p	erjury	that,	to t	he best	of my	knowled	lge	and	belief	and
based	upon	my	personal	inquiry	of	those	responsible	for	provid	ding	the	informat	ion c	ontained	in	this	analy	tical
report, such information is accurate and complete.																		

Authorized Signature:

Bell

Position: Laboratory Director

Printed Name: Benjamin Gulizia Date: 07/09/2015

YORK



Case Narrative

Client:Langan Engineering & Environmental Services (CT)
Client Project ID: 140109003
Prepared for: Ryan Wohlstrom

Introduction

HA-5-S1 (2-3)

This Case Narrative applies to the following samples submitted to our laboratory on 05/01/2015 17:10:

Sample Name	<u>Matrix</u>
HA-21 (2-3)	Soil
HA-21 (3-4)	Soil
HA-21-N1 (0-1)	Soil
HA-21-N1 (1-2)	Soil
HA-21-N1 (2-3)	Soil
HA-21-N1 (3-4)	Soil
HA-21-N2 (0-1)	Soil
HA-21-N2 (1-2)	Soil
HA-21-N2 (2-3)	Soil
HA-21-N2 (3-4)	Soil
HA-21-S1 (0-1)	Soil
HA-21-S1 (1-2)	Soil
HA-21-S1 (2-3)	Soil
HA-21-S1 (3-4)	Soil
HA-5 (2-3)	Soil
HA-5(1-2)	Soil
HA-5-E1 (0-1)	Soil
HA-5-E1 (1-2)	Soil
HA-5-E1 (2-3)	Soil
HA-5-E1 (3-4)	Soil
HA-5-E2 (0-1)	Soil
HA-5-E2 (1-2)	Soil
HA-5-E2 (2-3)	Soil
HA-5-E2 (3-4)	Soil
HA-5-N1 (0-1)	Soil
HA-5-N1 (1-2)	Soil
HA-5-N1 (2-3)	Soil
HA-5-N1 (3-4)	Soil
HA-5-N2 (0-1)	Soil
HA-5-N2 (1-2)	Soil
HA-5-N2 (2-3)	Soil
HA-5-N2 (3-4)	Soil
HA-5-S1 (0-1)	Soil
HA-5-S1 (1-2)	Soil
TT 4 = C1 (A A)	G •1

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Soil



HA-5-S1 (3-4)	Soil
HA-6-S1 (2-3)	Soil
HA-6-S1 (3-4)	Soil
HA-8 (1-2)	Soil
HA-8 (2-3)	Soil
HA-8 (3-4)	Soil
HA-8-E1 (0-1)	Soil
HA-8-E1 (1-2)	Soil
HA-8-E1 (2-3)	Soil
HA-8-E1 (3-4)	Soil
HA-8-E2 (0-1)	Soil
HA-8-E2 (1-2)	Soil
HA-8-E2 (2-3)	Soil
HA-8-E2 (3-4)	Soil
HA-8-N1 (0-1)	Soil
HA-8-N1 (1-2)	Soil
HA-8-N1 (2-3)	Soil
HA-8-N1 (3-4)	Soil
HA-8-N2 (0-1)	Soil
HA-8-N2 (1-2)	Soil
HA-8-N2 (2-3)	Soil
HA-8-N2 (3-4)	Soil
HA-8-S1 (0-1)	Soil
HA-8-S1 (1-2)	Soil
HA-8-S1 (2-3)	Soil
HA-8-S1 (3-4)	Soil
HA-8-S2 (0-1)	Soil
HA-8-S2 (1-2)	Soil
HA-8-S2 (2-3)	Soil
HA-8-S2 (3-4)	Soil
HA-8-W1 (0-1)	Soil
HA-8-W1 (1-2)	Soil
HA-8-W1 (2-3)	Soil
HA-8-W1 (3-4)	Soil
HA-8-W2 (0-1)	Soil
HA-8-W2 (1-2)	Soil
HA-8-W2 (2-3)	Soil
HA-8-W2 (3-4)	Soil

The 73 sample(s) were received intact in a custody-sealed cooler unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (2-6oC) and documented as:

Cooler

Default Cooler



<u>Cooler</u> <u>Temp C°</u> Default Cooler 4.0

Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

Preparation and analysis were conducted according to the SW-846 methods, as detailed in the sample information table, and the requirements of the State of Connecticut Reasonable Confidence Protocols (RCP).

For initial calibrations (ICAL), initial calibration verifications (ICV) and continuing calibration verifications (CCV) for organics determined by GC/MS methods (TO15 volatiles, 8260 volatiles and 8270 semi-volatiles) all method criteria and laboratory SOP criteria were met unless otherwise noted below. Any compounds in the ICAL, ICV or CCV exceeding RCP specified limits are available upon request. This data is not used for Data Quality Assessment or Data Usability Evaluation (assignment of compound bias) which are determined from other lines of evidence. Therefore the data is not detailed in this narrative.

These terms may be used interchangeably. Both are measures of the accuracy of an analysis by measurement of a known material from a source other than that used for calibration. By definition, a **Standard Reference Material** (**SRM**) is a material containing known levels of analytes used to evaluate the performance of the analytical system with respect to a defined set of acceptance criteria. It is processed exactly as a sample. An **LCS** (**Laboratory Control Sample**) is second-source standard containing known levels of analyte(s), treated exactly as a sample, run with each analytical batch. Both are metrics used to establish accuracy of the preparation/analysis methods.

Metals - Total (Arsenic)

No problems were encountered during analysis of the samples, other than detailed below.

Method Blank

No target analyte was detected at or above the RL in the method blanks.

Batch QC

Five Standard Reference Materials and MS/Dup analysis on sample "HA-21-S1 (0-1)" were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Dilutions

No sample dilutions were required.



Analytical Batch Summary

Batch ID: BE50164	Preparation Method:	% Solids Prep	Prepared By:	SCA
YORK Sample ID	Client Sample ID	Preparation Date		
15E0078-12	HA-5(1-2)	05/04/15		
15E0078-22	HA-5-N1 (0-1)	05/04/15		
5E0078-30	HA-5-E1 (0-1)	05/04/15		
5E0078-34	HA-5-S1 (0-1)	05/04/15		
5E0078-42	HA-8-S1 (0-1)	05/04/15		
5E0078-46	HA-8-N1 (0-1)	05/04/15		
5E0078-54	HA-8-E1 (0-1)	05/04/15		
15E0078-62	HA-8-W1 (0-1)	05/04/15		
15E0078-70	HA-8 (1-2)	05/04/15		
Batch ID: BE50262	Preparation Method:	EPA 3050B	Prepared By:	MW
YORK Sample ID	Client Sample ID	Preparation Date		
5E0078-02	HA-21 (2-3)	05/06/15		
5E0078-04	HA-21-S1 (0-1)	05/06/15		
5E0078-08	HA-21-N1 (0-1)	05/06/15		
5E0078-12	HA-5(1-2)	05/06/15		
5E0078-22	HA-5-N1 (0-1)	05/06/15		
5E0078-30	HA-5-E1 (0-1)	05/06/15		
5E0078-34		05/06/15		
5E0078-42	HA-5-S1 (0-1)	05/06/15		
.5E0078-42	HA-8-S1 (0-1)	05/06/15		
.5E0078-54	HA-8-N1 (0-1)	05/06/15		
	HA-8-E1 (0-1)	05/06/15		
5E0078-62	HA-8-W1 (0-1)	05/06/15		
5E0078-70	HA-8 (1-2)			
BE50262-BLK1	Blank	05/06/15		
BE50262-DUP1	Duplicate	05/06/15		
BE50262-MS1	Matrix Spike	05/06/15		
BE50262-SRM1	Reference	05/06/15		
Batch ID: BE50314	Preparation Method:	% Solids Prep	Prepared By:	KK
YORK Sample ID	Client Sample ID	Preparation Date		
5E0078-02	HA-21 (2-3)	05/06/15		
5E0078-04	HA-21-S1 (0-1)	05/06/15		
5E0078-08	HA-21-N1 (0-1)	05/06/15		
Batch ID: BE50798	Preparation Method:	EPA 3050B	Prepared By:	MW
YORK Sample ID	Client Sample ID	Preparation Date		
5E0078-09	HA-21-N1 (1-2)	05/15/15		
5E0078-14	HA-21-N2 (0-1)	05/15/15		
15E0078-18	HA-5-N2 (0-1)	05/15/15		
5E0078-23	HA-5-N1 (1-2)	05/15/15		
120 RESEARCH DRIVE	STRATEORD CT 06615	(203) 325-1371	FΔ <i>Y</i> (2	03) 357-0166

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Page 21 of 35



15E0078-26	HA-5-E2 (0-1)	05/15/15
15E0078-31	HA-5-E1 (1-2)	05/15/15
15E0078-35	HA-5-S1 (1-2)	05/15/15
BE50798-BLK1	Blank	05/15/15
BE50798-SRM1	Reference	05/15/15

BE50798-SRM1	Reference	05/15/15		
Batch ID: BE50813	Preparation Method:	% Solids Prep	Prepared By:	SCA
ORK Sample ID	Client Sample ID	Preparation Date		
5E0078-09	HA-21-N1 (1-2)	05/15/15		
15E0078-14	HA-21-N2 (0-1)	05/15/15		
5E0078-18	HA-5-N2 (0-1)	05/15/15		
5E0078-23	HA-5-N1 (1-2)	05/15/15		
5E0078-26	HA-5-E2 (0-1)	05/15/15		
15E0078-31	HA-5-E1 (1-2)	05/15/15		
5E0078-35	HA-5-S1 (1-2)	05/15/15		
Batch ID: BE51304	Preparation Method:	% Solids Prep	Prepared By:	KK
ORK Sample ID	Client Sample ID	Preparation Date		
5E0078-10	HA-21-N1 (2-3)	05/27/15		
5E0078-15	HA-21-N2 (1-2)	05/27/15		
5E0078-19	HA-5-N2 (1-2)	05/27/15		
5E0078-24	HA-5-N1 (2-3)	05/27/15		
5E0078-27	HA-5-E2 (1-2)	05/27/15		
5E0078-36	HA-5-S1 (2-3)	05/27/15		
Batch ID: BE51341	Preparation Method:	EPA 3050B	Prepared By:	MW
YORK Sample ID	Client Sample ID	Preparation Date		
5E0078-10	HA-21-N1 (2-3)	05/27/15		
5E0078-15	HA-21-N2 (1-2)	05/27/15		
5E0078-19	HA-5-N2 (1-2)	05/27/15		
5E0078-24	HA-5-N1 (2-3)	05/27/15		
5E0078-27	HA-5-E2 (1-2)	05/27/15		
5E0078-36	HA-5-S1 (2-3)	05/27/15		
BE51341-BLK1	Blank	05/27/15		
BE51341-SRM1	Reference	05/27/15		
Batch ID: BF50060	Preparation Method:	EPA 3050B	Prepared By:	ALD
YORK Sample ID	Client Sample ID	Preparation Date		
5E0078-28	HA-5-E2 (2-3)	06/01/15		
BF50060-BLK1	Blank	06/01/15		
3F50060-SRM1	Reference	06/01/15		
Batch ID: BF50073	Preparation Method:	% Solids Prep	Prepared By:	KK



YORK Sample ID	Client Sample ID	Preparation Date		
15E0078-28	HA-5-E2 (2-3)	06/01/15		
Batch ID: BG50345	Preparation Method:	EPA 3050B	Prepared By:	AMC
YORK Sample ID	Client Sample ID	Preparation Date		
15E0078-20	HA-5-N2 (2-3)	07/08/15		
BG50345-BLK1	Blank	07/08/15		
BG50345-SRM1	Reference	07/08/15		
Batch ID: BG50373	Preparation Method:	% Solids Prep	Prepared By:	SCA
YORK Sample ID	Client Sample ID	Preparation Date		
15E0078-20	HA-5-N2 (2-3)	07/08/15		



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

		Reporting		Spike	Source*		%REC			RPD				
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag			
Batch BE50262 - EPA 3050B														
Blank (BE50262-BLK1)							Prep	ared & Anal	yzed: 05/06/	/2015				
Arsenic	ND 1.00 mg/kg wet													
Duplicate (BE50262-DUP1)	*Source sample: 15	E0078-04 (E	HA-21-S1 (0-	1))			Prepared & Analyzed: 05/06/2015							
Arsenic	4.21	1.20	mg/kg dry		4.45				5.39	35				
Matrix Spike (BE50262-MS1)	*Source sample: 15	E0078-04 (H	HA-21-S1 (0-	1))			Prep	ared & Anal	yzed: 05/06/	/2015				
Arsenic	238	1.20	mg/kg dry	240	4.45	97.5	75-125							
Reference (BE50262-SRM1)							Prep	ared & Anal	yzed: 05/06/	/2015				
Arsenic	149	1.00	mg/kg wet	151		98.4	70.9-130							
Batch BE50798 - EPA 3050B														
Blank (BE50798-BLK1)							Prep	ared & Anal	yzed: 05/15/	/2015				
Arsenic	ND	1.00	mg/kg wet											
Reference (BE50798-SRM1)							Prep	ared & Anal	yzed: 05/15/	/2015				
Arsenic	141	1.00	mg/kg wet	151		93.1	70.9-130							
Batch BE51341 - EPA 3050B														
Blank (BE51341-BLK1)							Prepared & Analyzed: 05/27/2015							
Arsenic	ND	1.00	mg/kg wet											
Reference (BE51341-SRM1)							Prep	ared & Anal	yzed: 05/27/	/2015				
Arsenic	154	1.00	mg/kg wet	151		102	70.9-130							



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	Flag
Batch BF50060 - EPA 3050B											
Blank (BF50060-BLK1)	50060-BLK1) Prepared & Analyzed: 06/01/2										
Arsenic	ND	1.00	mg/kg wet								
Reference (BF50060-SRM1)		Prepared & Analyzed: 06/01/2015									
Arsenic	153	1.00	mg/kg wet	151		101	70.9-130				
Batch BG50345 - EPA 3050B											
Blank (BG50345-BLK1)							Prep	ared & Anal	yzed: 07/08/	2015	
Arsenic	ND	1.00	mg/kg wet								
Reference (BG50345-SRM1)							Prep	ared & Anal	yzed: 07/08/	2015	
Arsenic	119	1.00	mg/kg wet	122		97.9	70-145.1				

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Page 25 of 35



Notes and Definitions

* 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.

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

LOD

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.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Revision Description: Client took 1 more sample off hold

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FAX (203) 357-0166

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York Project No.

Page to of 18

Electronic Data Deliverables (EDD) Report Type Summary w/ QA Summary CTRCP DQA/DUE Pkg NY ASP A Package NY ASP B Package NJDEP Red. Deliv. CT RCP Package Simple Excel **Turn-Around Time** Standard(5-7 Days) RUSH - Same Day RUSH - Three Day RUSH - Four Day RUSH - Next Day RUSH - Two Day Misc. Org. Full Lists Purchase Order No. YOUR Project ID Ž 140109003 Samples from: CTX NY signature binds you to York's Std. Terms & Conditions. Invoice To: E-Mail Address: Phone No. Attention: Address: Report To: E-Mail Address: Address; Phone No. Attention: YOUR Information いみんらんか Confact Person; Phone No. Address:

Unpaid to the to diewing Rept. (please fill in). York Regulatory Comparison ODEEP RSAS ALIDEP SRP Huzsik-EDD Description(s) NYSDEC EQUIS Z-EDD (EQuIS) Excel Sprendsheet GIS/KEY (std) 15076 QuIS (std) Choose Analyses Needed from the Menu Above and Enter Below Corrosivity Ash Pour Sieve And. Parsen PCT, Okrains Pet 3GB Retting I'M MEEN Hull App. 18 Part 360 great Full 77 Lt. NYC DESemp NAME AND ASSESSED. Pri.Poll. LACINE PHGRO PHDRO 三二二 アンス PH 1664 AR TOLLS AFSTARS Air 10115 Methan DAGIM list ALDEPTISE. TISTER PPL3 list Jissolvei! Tintal SPI Perittip Ascorbic Acid SUKEPCB RT.P.Herb CLP Pest X1511 lerb SOSTPest TRCP Thirtian ムうごべ App. 18 大石のよ GIN Pest よりつり SPI PorTCTP hors PCT; X Kore X LOOD X KOLE **マジタ** メ T RCP list STARS list Acids Only ACIM list JUNEP IS SPECIFICAL PRAZ BN Only PAH fist Te? list App. 1X Suffolk Cu. NIDEP IN WASSIERS! TCLP list Arsenic STARS Est TROPES Aron: only App.PX list TACIM In Print Clearly and Legibly. All Information must be complete. State of Halog.conic SU2118 Fire BITEN MILL Samples will NOT be logged in and the turn-around time an clock will not begin until any questions by York are resolved. Other - specifyoil, etc.) drinking water groundwater Sample Matrix Check those Applicable Air-SV - soil vapor MO Date/Time Sampled (785 127 1740 [745] 742 1741 0000 900 000 Samples Collected/Authorized By (Signature) ANACYSS CASTIC Name (printed) Sample identification HA-6- NI (3-4) MA-6-NI (2.3) 44-6-NI (6-1 HA-6-NI (1-2) HA-6-51 6-1 44-6-81 (L-2 4.8-6 (2-3) HA-6 (3 4) Page 27 of 35 MA-6 (F-3) F-Mail Address:

Temperature on Receipt

Date/Time

Samples Received By Lauri

Date/Time

Samples Relinquished By

Field Filtered Instructions

By CANGAN

Samples Received in L. A B by

Date/Time

Samples Relinquished By

Date/Time

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Page ∏ of [8

Report Type	ort A Summary		OUE Pkg	cage	ADEP Red. Deliv. Electronic Data Deliverables (EDD)		S		S)	Zone DDD	Comparison	et g Regs. (please fill in):	RSRS	Container	Description(s)												lemperature on Receipt	4,0,	ر -
	Summary Report Summary w/ QA Summary	CT RCP Package	CTRCP DQA/DUE Pkg	NY ASP B Package	Electronic Data Deliv.	Simple Excel	NYSDEC EQuIS	EQuIS (std)	EZ-EDD (EQuIS)	GIS/KEY (std)	Other York Regulatory Comparison	Excel Spreadsheet Compare to the following Regs. (please fill in):	CT DEEP		7 05 1.55	1									>	 		Date/Time	Date/Time
Turn-Around Time	RUSH - Same Day	KUSH - Next Day	RUSH - Iwo Day	RUSH - Four Day	Standard(5-7 Days)	Org. Full Lists Misc.	Pri.Poll.	TCL Oganis	H TAL Met CN lightability -13 Full TCLP Flash Point	Full App. IX		a	NYSDECSong Trick	oove and Enter Below												H ₂ SO ₊ NaOH		Samples Received By D	in LAB by
YOUR Project ID	H0109003		Purchase Order No.		Samples from: CTX NY NJ	Semi-Vols, PestPCBHerld Metals Misc. Org.	8082PCB RCRA8	8081Pest PP13 list	V CT RCP CT15 list NY 310-13	App. IX TAGM list Site Spec NIDEP list	SPLP or TCLP Total	TCLP Herb SPLPGTCLP	608 Pest CIST Below	Choose Analyses Needed from the Menu Above and Enter Below	K Serv			* EP		* 130.7	* How	X HOLD		* HOLD	X PO CO	MeOH HNO3	0	1	Date/Time Samples
Invoice To:						Volatiles	8260 full TICs	524 Site Spec. STARS list	Suffolk Co.	MTBE Ketones PAH list TCLlist Oxverntes TAGM list	list TCLP list	502.2 NIDER ES	SPLPGTCLP	Choose Analyses Nee											· →	4°C Frozen HCI	Mar Shill	Samples Relinquished By	Samples Relinquished By
O:	Company:	Address:	Phone No.	Attention:	E-Mail Address:	not he committee	ust be complete.	rn-around time	rk are resolved.	Matrix Codes S - soil	ther-	GW - groundwater DW - drinking water		Sample Matrix	8										>	Preservation Check those Applicable	Special	Field Filtered	
Report To:	Company:	Address:	Phone No.	Attention:	E-Mail Address:	Il Information m	a in and the ter	מ זוו מווח וווה ווו	y questions by Yo		Bv (Signature)	(2) (2) (3) (4)		Date/Time Sampled	1/30/15 1903		1.03	7,81	\$281	1826	1827	9281-	(840	1841	1842		1	74	
YOUR Information	Company: LANGAR	Address:	Phone No.	Contact Person:	E-Mail Address:	Print Clearly and Logibly All Information must be commissed	Camples will NOT he loans	Sumpres was 1001 be 1088ea in and the turn-around time	clock will not begin until any questions by York are resolved.		Samples Collected/Authorized By (Signature)		Name (printed)	Sample Identification	MA-6-51 (3-4)		1 (2-7) 17-WH	WA- 21 (3-4)	HA-21-SI (6-1)	44-21- SI (1-2)	WA- 21-51 (2-3)	WA-21-51 (3-4)	HA-Z(-NI (6-1)	HA-21- NI (1-2)	-71-N((2-3)	mments	SHOULD ANALYSIS UNTIL	of 35	5

8 Page 12 of

York Project No. 15EZUT

YORK ANALYTICAL LABORATORIES

STRATFORD, CT 06615 FAX (203) 357-0166 12D RESEARCH DR. (203) 325-1371

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Temperature on Receipt Electronic Data Deliverables (EDD) Excel Spreadsheet Compare to the following Regs. (please fill in): York Regulatory Comparison NJDEP SRP HazSite EDD CASE RSAS Report Type CTRCP DQA/DUE Pkg Description(s) Summary W/ QA Summary NY ASP B Package NY ASP A Package NJDEP Red. Deliv. Summary Report CT RCP Package NYSDEC EQuIS EZ-EDD (EQuIS) 94.55 GIS/KEY (std) Simple Excel EQuIS (std) 5-1-15 Choose Analyses Needed from the Menu Above and Enter Below **Turn-Around Time** Standard(5-7 Days) Aquatic Tox. Part 360-Routine Heterotrophs Samples Received in LAB by Flash Point Sieve Anal. Reactivity NYSDECSewer Asbestos RUSH - Three Day RUSH - Same Day Misc. Org. Full Lists Misc. RUSH - Four Day RUSH - Next Day RUSH - Two Day Part 360-Bracfine TOX NYCDEP Sever TOC Samples Received By TCL Ognics Full App. IX Part 360-Equator No Diomis Turns TAL MetCN Full TCLP NY 310-13 Air TO14A TPH DRO TPH 1664 CT ETPH Air STARS Air TO15 Methane TCLP Herb SPLPorTCLP Air VPH Indiv. Metals | Air TICs Z Purchase Order No. YOUR Project ID Samples from: CT XNY いだり NJDEP list TAGM list Dissolved Metals CT15 list IST Below PP13 list RCRA8 140109003 SPLP or TCLP Total AL Date/Time X HOLD MEOH Date/Time Ascorbic Acid X YOU 名名米 * SOLD X thora X HOLD A MOND Semi-Vols. Pest/PCB/Herts 1250 X * Zee 51/12 TCLP Pest Chlordane 8151Herb Site Spec. 8082PCB 8081Pest App. IX 608 Pest CTRCP SPIPOTICIP TCLP BNA CT RCP list STARS list Acids Only TAGM list NJDEP list App. IX Samples Relinquished By TCL list BN Only PAH list Samples Relinquished By Suffolk Co. NJDEP list Nassau Co. TCLP list Ketones Arsenic Invoice To: 524.2 CT RCP list Halog.only Arom. only App.IX list STARS list TAGM list Print Clearly and Legibly. All Information must be complete. 8260 full MTBE TCLIST E-Mail Address: Samples will NOT be logged in and the turn-around time 624 Phone No. Attention: clock will not begin until any questions by York are resolved. Other - specify(oil, etc.) DW - drinking water Company: Address: Check those Applicable Sample Matrix GW - groundwater Matrix Codes WW - wastewater Air-A - ambient air Air-SV - soil vapor Field Filtered Preservation Instructions Report To: 22b) \$\frac{(2-2)}{\text{C-1}} \frac{192-x}{\text{Page}} \text{Page} \text{Page} \text{Page} Date/Time Sampled 1922 1843 1856 1903 855 1900 100 1921 1901 1920 Samples Collected/Authorized By (Signature) E-Mail Address: Attention: Phone No. Company: Address: Name (printed) YOUR Information Sample Identification HA-21-N2 (3-4) HA-21-NZ (2-3 S- N2 (1-2) N7 (2-3 HA-5-NZ (0-1) 49-21-N2 (0-1) HA-21- N2 (1-2 44-21-NI (3-4 Company: CANGAL HA-5 (2-3) HA-5 (1-2) E-Mail Address: Contact Person: Phone No.

Page 13 of 18

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York Project No. 156 00 78

Type		Summary	UE Pkg	ige .	age	iv.	Electronic Data Deliverables (EDD)					Site EDD		Comparison	t t	Regs. (please fill m):	LSRS	Container Description(s)	(S)TOTA	ه										F	on Receipt	٧ ٥ ٥	
Report Type	Summary Report	CT RCP Package	CTRCP DOA/DUE Pkg	NY ASP A Package	NY ASP B Package	NJDEP Red. Deliv.	Electronic Data D	Simple Excel	NYSDEC EQuIS	EQuIS (std)	EZ-EDD (EQuIS)	NJDEP SRP HazSite EDD	GIS/KEY (std)	Other Vork Regulatory Comparison	Excel Spreadsheet	Compare to the following Regs. (please fill in):	CITABLE A		١.	200 aluss	2_								->			Date/Time	Date/Time
Turn-Around Time	RUSH - Same Day	RUSH - Next Day	RUSH - Two Day	RUSH - Three Day	RUSH - Four Day		Standard(5-7 Days)	rg. Full Lists Misc.	O Pri.Poll. Corrosivity	O TCL Oggies Reactivity	TAL MetCN	Full TCLP	4 Full App. IX Sieve Anal. 1A Part 360-Routine Heleminahs		S Part 360-Equated BTU/Ib. No Docute Fuence Doct 3.60.	NYCDEPSewer TOC	NYSDECseura Asbestos	ove and Enter Below												H ₂ SO _← NaOH		Received By	Samples Received in I AB by D
YOUR Project ID	140000	140104003	Purchase Order No.				Samples from: CT NY NJ	Semi-Vols, Pest/PCB/Herb Metals Misc. Org.	8270 or 625 8082PCB RCRA8 TPH GRO	STARS list 8081Pest PP13 list TPH DRO	8151Herb TAL	Ly CT RCP CTT5 list	PAH list App. IX TAGM list TPH 1664 TAGM list Site Spec NIDEP list Air TO14A	t SPLPorTCLP Total	TCL list TCLP Pest Dissolved Air STARS	Chlordane Indiv. Metak	608 Pest 608 PCB	om the Me		* The Co		* How	るが大	A Horse	X HOUD	* HOLD	* 1200	* HOLD		HCI MeOH HNO3	S//c 1740		Date/Time
Invoice To:	×			Ö			ddress:	Volatiles	8260 full TTCs	624 Site Spec.	STARS list Nassau Co.	BIEX Suffolk Co.	TCL list Oxvoerates TAG	TAGM list TCLP list	CT RCP list 524.2 TCL	Halog.only NJDEP list	App.IX list SPLPorTCLP	Choose Analyses	4	Arsanic	_								>	4°C Frozen I	NO3 411	Semples Relinquished By	Samples Relinquished Rv
<u>ن</u>	Company:	Address:		Phone No.		Attention:	E-Mail Address:	not he countries	asi ne comprere	rn-around time	rk are resolved		Matrix Codes	Other - specify(oil, etc.)	WW - wastewater		Air-A - ambient air Air-SV - soil vapor	Sample Matrix	ţ	V									7	Preservation	Special	Field Filtered	Lab to Filter
Report To:	Company:	Address:		Phone No.		Attention:	E-Mail Address:	All Información	An Information mi	ged in and the tu	inv auestions by Yo				ed By (Signature)		(p	Date/Time Sampled		4/30/15 1973	5267	926)	1261	8231	1940	14-1	1942	1943	4 1944			MOTHORIZED	
YOUR Information	Company: CALGAL	Address:		Phone No.		Contact Person:	E-Mail Address:	Deline Clause and I amilely	Frim Clearty and Legioly. An Information must be complete.	Samples will NOT be logged in and the turn-around time	clock will not begin until any questions by York are resolved.				Samples Collected/Authorized By (Signature)		Name (printed)	Sample Identification		HA-5-NZ (3-4)	MA-5-N1 (0-1)	HA-5-NI (1-2)	WA-5-N1 (2-3)		HA-5-EZ (0-1)		HAS 62 (23)	44-6-E2 (3-4)	(1-0) · A · V · A	omments	670	25 LA / A - A - A - A - A - A - A - A - A -	

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Report Type	Summary Report	Summary W/ QA Summary CT RCP Package	CTRCP DQA/DUE Pkg	NY ASP A Package	NY ASP B Package	Electronic Data Deliverables (EDD)	Excel	NYSDEC EQuIS	(std)	EZ-EDD (EQuIS)	NJUEF SKF Hazsite EUU GIS/KEY (std)		York Kegulatory Comparison Excel Spreadsheet	the following Regs. (please fill in):	CTDEEP RSRS	Container Description(s)		5									F	on Receipt	J. 0.7 0/E	
Turn-Around Time	RUSH - Same Day Summa	RUSH - Next Day CT RCF	RUSH - Two Day CTRCP	RUSH - Three Day NY ASF		Standard(5-7 Days) K Electron		Corrosivity	nics Reactivity	TAL Match Ignitability EZ-EDI	Sieve Anal.	Pat 360-Rouine Heterotrophs Other	BTU/lb.	Part 300 Hyperskel Aquathe Tox. Compare to t	sops	and Enter Below	2.5%									→	H ₂ SO _← NaOH		Date/Time	eivadin AR hy
YOUR Project ID Tu	I A OLOGO S		Purchase Order No. R	NAME OF THE PERSON OF THE PERS	x	Samples from: CT NY NJ Sta	Semi-Vols, PestPCEMert Metals Misc. Org.	RCRA8 TPH GRO	st 8081Pest PP13 list TPH DRO	8151Herb TAL CTETPH	App. IX TAGM list TPH 1664	TAGM list Site Spec. NJDEP list Air TO14A F	TCLP Pest Dissolved Air STARS	Chlordane Indiv.Metab Air TICs	608 Pest LIST Beloy Methane 608 PCB Helium	om the Menu Abov	* Have	HOLD	CTON C		KOUD HOUD	HOUD !	HOLD	HAD	Land.	Anoth	ICI MeOH HNO3	5 VIS (716	1	V Date/Time Samples Red
Invoice To:	by:			lo.	DI.	E-Mail Address:	Volatiles	*8260 full TICs	624 Site Spec.	STARS list Nassau Co.	Ketones	TCL list Oxygenates TAGM list TCLP list	524.2	Halog.only NJDEP list	SPLPorTCLP	Choose Analyses	Arsenic *	*	*		*	*	.*	*	*	*	4°C Frozen E	1 102 Saled	Samples Relinquished By	Samples Relinquished By
<u></u>	Company:	Address:		Phone No.	Attention:	E-Mail	1 1	ust de complete	rn-around tim	rk are resolvea	Ma	S - soil Other - specify(oil, etc.)	WW - wastewater		Air-A - ambient air Air-SV - soil vapor	Sample Matrix	S									~	Preservation Check those Applicable	Special Instructions	Field Filtered	
Report To:	Company:	Address:		Phone No.	Attention:	E-Mail Address:	, , , , , , , , , , , , , , , , , , , ,	All Information m	ged in and the tu	my questions by Yo			ed By (Signature)		(p	Date/Time Sampled	1/30/15 1945		2961	2002	1002	7007	V 2003	5/1/15 1245	1 1246	1247		AUTHOUSED	2170	
YOUR Information	Company: LASA	Address:		Phone No.	Contact Person:	E-Mail Address:	The Ire I work a	Frint Clearly and Legibly. All Information must be complete.	Samples will NOT be logged in and the turn-around time	clock will not begin until any questions by York are resolved.			Samples Collected/Authorized By (Signature)		Name (printed)	Sample Identification	HA-5-E((1-2)	HA-5-E1 (2-3)	44-5-E1 (3-4)	KA-5-SI (0-1)	MA-5-SI (1-2)	4A-5-SI (2-3)	HA-5-51 (3-4)	HA-8-52 (0-1)	4A-8-52 (1-2)	JA-9-52 (2-5)	e comments	ONLY SUSTAINS SUSTAINS STORY COOP OF	74 574 7 HA 35	î

YORK MALTICAL MOLECULE DE

YDRK ANALYTIGAL LABDRATORIES FIELD 12D RESEARCH DR.

RK ANALYTICAL LABORATDRIES 120 RESEARCH DR. STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

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York Project No. 15E007

YOUR Information	Report To:	ö	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type
Company: LANGAN	Company:	Company:	š.		RUSH - Same Day	Summary Report
Address:	Address:	Address:		140109003	RUSH - Next Day	Summary w/ QA Summary CT RCP Package
				Purchase Order No.	RUSH - Two Day	CTRCP DQA/DUE Pkg
Phone No.	Phone No.	Phone No.	0.		RUSH - Three Day	NY ASP A Package
Contact Person:	Attention:	Attention:	1		RUSH - Four Day	NY ASP B Package NJDEP Red. Deliv.
E-Mail Address:	E-Mail Address:	E-Mail Address:	ddress:	Samples from: CTX NY NJ	Standard(5-7 Days)	Electronic Data Deliverables (EDD)
Print Clearly and Legiply, All Information must be complete	All Information m	est he complete	Volatiles	Semi-Vols, PestPCBHerd Metals Misc. Org.	rg. Full Lists Misc.	Simple Excel
JUN NOV.	and the second state of	or compress.	8260 full TICs	8082PCB RCRA8	Pri.Poll.	NYSDEC EQuIS
Samples will IVOI be logged in and the turn-around time	ged in and the tu	n-around time	624 Site Spec.	st 8081Pest PP13 list	TCL Ognics	EQuIS (std)
clock will not begin until any questions by York are resolved.	ny questions by You	k are resolved.	STAKS list Nassau Co. BTEX Suffolk Co.	BN Only 8151Herb TAL CTETPH Acids Only CT RCP CT15 list NV 310-13	H TAL MetCN Ignitability 13 Evil TCT D Flack Deinst	EZ-EDD (EQuIS)
		Ka	Ketones	App. IX TAGM list	Full App. IX	NJDEP SKP Hazsite EDD GIS/KFY (std)
		S - soil	TCL list Oxygenates	Site Spec. NJDEP list		Other
Samples Collected/Authorized By (Signature)	d By (Signature)	WW - wastewater	CT RCP list 524.2	TCL list TCLP Pest Dissolved Air STARS	S Part 360-Baseline TOX S Part 360-Economy BTU/Ib	York Regulatory Comparison
		GW - groundwater DW - drinking water	Arom, only 502.2	st TCLP Herb SPLPGTCLP		Excel Spreadsheet Compare to the following Regs. (please fill in):
Name (printed)		Air-A - ambient air Air-SV - soil vapor	App.IX list SPLPGTCLP	608 Pest (IST Below)	NYSDECSener	CTDEEP RSES
Sample Identification	Date/Time Sampled	Sample Matrix	Choose A nelvess	SPLPGICLE 608 PCB Helium	TAGM Silica	Container
Sample Identification	Date/ IIIIe Sallipieu	Sample Mathx	CHOUSE AHAIYSES	Choose Analyses Aredeu from the Menu Above and Enter Below	ove and Enter Below	Description(s)
HA-8-52 (3-4)	5/1/15 1248	V	Arsonic	* Kow		Ssyl 20 C
HA-8-51 (6-1)	1250	_				-
HA-8-SIG-2)	1521			* HOW		
HA-8-SI (2-3)	1227			* Kasa	70	
MA-8-51 (3-4)	(253			* Has		
ر. ا	(255)					
HA-8-NI (1-2)	1256			公里 米		
HA-8-N1 (2-3)	1257			X 1605		
HA-8-NI (34)	852)		_	X 255		
(1-9/2N -8-41-	0081	\Rightarrow	~ ~	X 7007 X		Z
e summents		Preservation Check those Applicable	4°C Frozen H	HCI MeOH HNO3	H ₂ SO NaOH	F
STATE CANOSISHAND OF S	July of Factor	Special Instructions	1803 hul	0.41 s1/2		on Receipt
35	200	Field Filtered	Samples Relinquished By	Date/Time	Samples Received By Da	Date/Time 4.0 °C
120010			Samples Relinquished By		Samples Received in LAB by Da	

Page [6] of [8]

York Project No. 150079

FAX (203) 357-0166 (203) 325-1371

Field Chain-of-Custody Record YORK ANALYTICAL LABORATORIES STRATFORD, CT 06615

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emperature on Receipt Electronic Data Deliverables (EDD) Excel Spreadsheet
Compare to the following Regs. (please fill in): York Regulatory Comparison CTUTEP ASPS NJDEP SRP HazSite EDD Report Type CTRCP DQA/DUE Pkg Summary w/ QA Summary Description(s) Container NY ASP A Package NY ASP B Package NJDEP Red. Deliv. 25000 NYSDEC EQuIS CT RCP Package Summary Report EZ-EDD (EQuIS) GIS/KEY (std) Simple Excel EQuIS (std) 5-1-15 1710 Date/Time 3 5 Choose Analyses Needed from the Menu Above and Enter Below Turn-Around Time Standard(5-7 Days)igteetHeterotrophs Aquatic Tox. gnitability Flash Point Sieve Anal. Samples Received in LAB by Reactivity RUSH - Same Day RUSH - Three Day No Diouss Furns RUSH - Next Day RUSH - Two Day Samples Received By Misc. Org. Full Lists Part 360-Routine Part 360-Baseline NYCDEPSour NYSDEC Sewer TCL Oggnics Full App. IX TAL MedCN Full TCLP NY 310-13 Air TO14A TPH DRO TPH 1664 Air STARS TPH GRO CT ETPH Air TO15 TCLP Herb SPLPorTCLP Air VPH Air TICs Methane Purchase Order No. 2 YOUR Project ID Indiv. Metak NJDEP list **TAGM list** 5/1/15 17:10 Semi-Vols. Pest/PCB/Herld Metals Dissolved JIST Below Samples from: CT X NY PP13 list CT15 list 140109003 CT RCP list SPLP or TCLP Total ASP PSP HOLD LOW ACON CACON / Date/Time 2002 HOLD Hold PLOUD Ascorbic Acid 2007 TCLP Pest Chlordane Site Spec. 8151Herb 8081Pest App. IX SPIP or TCIP TCLP BNA 608 Pest CTRCP NJDEP list STARS list Acids Only TAGM list App. IX BN Only AH list *ICL list* Samples Relinquished By Suffolk Co. NJDEP list Nassau Co. Arsenic Oxygenates TCLP list Site Spec. Ketones Frozen Invoice To: 524.2 502.2 Volatiles CT RCP list App.IX list Arom. only Halog.only TAGM list Print Clearly and Legibly. All Information must be complete. '8260 full TCLIST E-Mail Address: Samples will NOT be logged in and the turn-around time 624 Phone No. Attention: clock will not begin until any questions by York are resolved. Other - specify(oil, etc.) DW - drinking water Address: Check those Applicable Sample Matrix GW - groundwater Matrix Codes WW - wastewater Air-A - ambient air Preservation Field Filtered Air-SV - soil vapor Instructions soil Report To: Date/Time Sampled 1302 1303 307 1300 1312 13051 1300 1305 000 1351 HOUR ANALYSIS UNTIL AUTHORIZED Samples Collected/Authorized By (Signature) E-Mail Address: hone No. Attention: Address: Name (printed) By CANGAN YOUR Information Sample Identification MA-8-NZ (3-4) NA 4A-9-N2 (2-3 1-2 6 Company: LANGAL 48-8-NZ HA-8-E1 WA-8-EZ 14-8-F1 4A-8-E1 omments Contact Person: E-Mail Address Phone No. Page 33 of 35

Date/Time

Date/Time

Samples Relinquished By

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371

FAX (203) 357-0166

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signature binds you to York's Std. Terms & Conditions.

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Page 17 of 18

York Project No. 15E0018

 YOUR Information	Keport Io:	 	Invoice 10:	TOOK Project ID	Inrn-Around lime	Report lype	
Company: Langan	Сотрапу:	Company:		,	RUSH - Same Day	Summary Report	
Address:	Address:	Address:		(4010400)	RUSH - Next Day	Summary w/ QA Summary	1
				Purchase Order No.	RUSH - Two Day	CTRCP DQA/DUE Pkg	
Phone No.	Phone No.	Phone No.			RUSH - Three Day	NY ASP A Package	
Contact Person:	Attention:	Attention:			RUSH - Four Day	NY ASP B Package	
E-Mail Address:	- E-Mail Address:	E-Mail Address:	lress:	Samples from: CT NY NJ	Standard(5-7 Days)X	Electronic Data Deliverables (EDD)	a
Daint Clouds and I south.	All Information	of he committee	Volatiles	-2	g. Full Lists Misc.	Simple Excel	
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Samples will NOT be logged in and the turn-around time	ged in and the tur	n-around time	624 Site Spec.	t 8081Pest PP13 list	TCL Ognics	EQuIS (std)	
clock will not begin until any questions by York are resolved.	ny questions by Yor	k are resolved.	list Nassau Co.	8151Herb TAL	TALMOON	EZ-EDD (EQuIS)	
		Motrix Codes	MITTE Valoues BAH liet		5 Full ICLP Flash Point	NJDEP SRP HazSite EDD	
		S - soil	Oxygenates	Site Spec. NJDEP list	Full App. LA Part 360-Routine	GIS/KEY (std)	
		Other - specify(oil, etc.)	TCLP list	ist SPLPorTCLP Total		York Regulatory Comparison	1
Samples Collected/Authorized by (Signature)	d By (Signature)		524.2	st	Part 360-express BTU/Ib. No Downes Farms Part 500-expressed Aquatic Tox.	Excel Spreadsheet Compare to the following Regs. (please fill in):	
Name (printed)	(1	DW - drinking water Air-A - ambient air Air-SV - soil vapor	Halog.only NJDEP list App. IX App.IX list SPLPGTCLP TCLP BNA 8071B list	App. IX Chlordane Indis.Meats Air TICs TCLP BNA 608 Pest LIST Beloy Methane SSP POTTTP 608 PCR	NYCDEPSant TOC NYSDECsant Asbestos TAGM Silica	CTDETP RSRS	
Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses N	om the Me	ove and Enter Below	Container Description(s)	
HA-8-E2 (3-4)	5/1/5 1313	5	Arsomic	X flow		20t : 455	
HA-8-1111 (0-1)	1, 1315			\		1 0	
MA-8-W1 (7-2)	9121			₹ 500 X			1
HA- M- M1 (2-3)	月37年			X KON			
, W	1318		*	A How			
0	(320		*	GNOW >			
HA-8-W2 (1-2)	1351			F GLOUD			
HA-8-W2 (2-3)	732		X .	Frow ?			
HA-8-142 (3-4)	1323		*	T HOUD			
12-1) 8-AH	1325	>	7			>	
5		Preservation Check those Applicable	4°C Frozen HCI	Cl MeOH HNO3	H ₂ SO _← NaOH	Temperature	<u> </u>
ABJECT BOWNEY - 1711/20 SINFORM ON 14 1	AVENDRUGED	Special Instructions	Hy Thull	5/1/15 (7:10)	Samples Received By	on Receipt	j jā
745047 JA 35		Field Filter			6	15 19 10 4.0°C	ပွ
]			Samples Relinquished By	Date/Time	Samples Received in LAB by Da	Date/Time	

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Page 18 of 18

York Project No. 15CCON This document serves as your written authorization to York to proceed with the analyses requested and your

YOUR Information	Report To:	.io	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type	
Company: LANGAN	Company:	Company:	ķ	140100103	RUSH - Same Day	Summary Report	
Address:	Address:	Address:		0010101	RUSH - Next Day	CT RCP Package	707
				Purchase Order No.	RUSH - Two Day	CTRCP DQA/DUE Pkg	
Phone No.	Phone No.	Phone No.	.0.		RUSH - Three Day	NY ASP A Package	
Contact Person:	Attention:	Attention:	n:		RUSH - Four Day	NY ASP B Package NIDEP Red. Deliv.	
E-Mail Address:	E-Mail Address:	E-Mail Address:	Address:	Samples from: CT XNY NJ	Standard(5-7 Days)	Electronic Data Deliverables (EDD)	
Drint Clourly and Locibly	All Information my	et he committee	Volatiles	Semi-Vols, PestPCB/Herh Metals Misc. O.	Misc. Org. Full Lists Misc.	Simple Excel-	
of the Clearly and Legioty. An injointanon must be complete.	an injormanon mi	ist be complete	8260 full TICs	8082PCB RCRA8	Pri.Poll.	NYSDEC EQuIS	
Sumples will ivot be togged in and the turn-around time	sea in and me in	n-arouna um	524 Site Spec.	BN Only 8151Herb TAI CTETPE	O TCL Organics Reactivity	EQuIS (std)	
clock will not begin until any questions by York are resolved.	ny questions by Io.	'k are resolved	BTEX Suffolk Co.	ly CTRCP CT15 list	Full TCLP	NIDEP SRP HazSire EDD	
		Matrix Codes	MTBE Ketones PAH list TCL list Oxvoerates TAGM li	PAH list App. IX TAGM list TPH 1664	4 Full App. IX Sieve Anal.	GIS/KEY (std)	4
		Other - specify(oil, etc.)	TAGM list TCLP list	t SPLPorTCLP Total	0	Other York Regulatory Comparison	
Samples Collected/Authorized By (Signature)	d By (Signature)	WW - wastewater GW - groundwater	CT RCP list 524.2 Arom. only 502.2	ist	S Part 360-Expended BTU/Ib. No bookuse Fuence Part 360-Expended Aquatic Tox.	Excel Spreadsheet Compare to the following Regs. (please fill in):	1 1
Name (printed)		DW - drinking water Air-A - ambient air Air-SV - soil vanor	Halog.only NJDEP list App.IX list SPLP or TCLP	e Indiv. Metak	NYODEVSewer TOC NYSDECSewer Asbestos	CYDEED 250 3	
	į	rodni moc 10 my	8021B list SPLP	SPLP or TCLP 1608 P.C.B Helium	TAGM Silica	ner	1
Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses	Choose Analyses Needed from the Menu Above and Enter Below	ove and Enter Below	Description(s)	
HA-8 (2-3)	8/1/12 132B	N	Arsenic &	A HOLA		Somb ZoL	
44-9 (3-4)	₹281 ↑	v		人名日本		->	
)				•	
							1
72							
Pa							
ë omments		Preservation Check those Applicable	4°C Frozen ZnAc	HCI McOH HNO3	H ₂ SO ₊ NaOH		
460 ANAYSIS UNTIL ANTHRAITED		Special Instructions	NO, 21, 4	S///S (BD)	3	on Receipt	
	3	Field Filtered	Samples Relinquished By	Date/Time	1 6	Date/Time	
			Samples Relinquished By	Date/Time		Date/Time	



Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Justin Hall

Report Date: 07/06/2015

Client Project ID: 140109002 York Project (SDG) No.: 15F0769

Revision No. 2.0

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

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Page 1 of 44

Report Date: 07/06/2015 Client Project ID: 140109002 York Project (SDG) No.: 15F0769

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive New Haven CT, 06511 Attention: Justin Hall

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 June 19, 2015 and listed below. The project was identified as your project: **140109002**.

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.

York Sample ID	Client Sample ID	<u>Matrix</u>	Date Collected	Date Received
15F0769-01	HA-13-N4 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-02	HA-13-N4 (1-2)	Soil	06/18/2015	06/19/2015
15F0769-05	HA-13-N6 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-06	HA-13-N6 (1-2)	Soil	06/18/2015	06/19/2015
15F0769-09	HA-13-N3 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-13	HA-13-N5 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-14	HA-13-N5 (1-2)	Soil	06/18/2015	06/19/2015
15F0769-17	HA-10-W1 (1-2)	Soil	06/18/2015	06/19/2015
15F0769-20	HA-10-W2 (2-3)	Soil	06/18/2015	06/19/2015
15F0769-22	HA-22-S1 (2-3)	Soil	06/18/2015	06/19/2015
15F0769-24	HA-13-W1 (2-3)	Soil	06/18/2015	06/19/2015
15F0769-26	HA-13-W3 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-27	HA-13-W3 (1-2)	Soil	06/18/2015	06/19/2015
15F0769-30	HA-13-W4 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-34	HA-13-SW1 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-35	HA-13-SW1 (1-2)	Soil	06/18/2015	06/19/2015
15F0769-38	HA-13-SW2 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-42	HA-10-W3 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-43	HA-10-W3 (1-2)	Soil	06/18/2015	06/19/2015
15F0769-44	HA-10-W3 (2-3)	Soil	06/18/2015	06/19/2015
15F0769-45	HA-10-W4 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-48	HA-10-SW1 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-52	HA-10-SW2 (0-1)	Soil	06/18/2015	06/19/2015

York Sample ID	Client Sample ID	<u>Matrix</u>	Date Collected	Date Received
15F0769-56	HA-10-SW3 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-59	HA-5-E4 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-63	HA-5-E6 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-64	HA-5-E6 (1-2)	Soil	06/18/2015	06/19/2015
15F0769-67	HA-5-E3 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-68	HA-5-E3 (1-2)	Soil	06/18/2015	06/19/2015
15F0769-71	HA-5-E5 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-75	HA-5-N4 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-76	HA-5-N4 (1-2)	Soil	06/18/2015	06/19/2015
15F0769-77	HA-5-N4 (2-3)	Soil	06/18/2015	06/19/2015
15F0769-79	HA-5-N6 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-83	HA-5-N3 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-84	HA-5-N3 (1-2)	Soil	06/18/2015	06/19/2015
15F0769-87	HA-5-N5 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-88	HA-5-N5 (1-2)	Soil	06/18/2015	06/19/2015
15F0769-91	HA-21-NE1 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-92	HA-21-NE1 (1-2)	Soil	06/18/2015	06/19/2015
15F0769-95	HA-21-NE2 (0-1)	Soil	06/18/2015	06/19/2015
15F0769-99	HA-10-NE1 (0-1)	Soil	06/18/2015	06/19/2015

General Notes for York Project (SDG) No.: 15F0769

- 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:

Benjamin Gulizia Laboratory Director -∳- Vork

07/06/2015

Date:



<u>Client Sample ID:</u> HA-13-N4 (0-1) <u>York Sample ID:</u> 15F0769-01

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015
 9:01 am
 06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RL Analyzed CAS No. Parameter Result Flag Units Dilution Reference Method Prepared Analyst 06/24/2015 13:33 7440-38-2 11.2 mg/kg dry 1.10 EPA 6010C 06/24/2015 16:43 ALD Arsenic

<u>Total Solids</u> <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RLDilution Reference Method Parameter Result Units Prepared Analyzed Analyst solids 90.8 % 0.100 SM 2540G 06/22/2015 10:43 06/22/2015 15:51 % Solids

Sample Information

<u>Client Sample ID:</u> HA-13-N4 (1-2) <u>York Sample ID:</u> 15F0769-02

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15F0769140109002SoilJune 18, 2015 9:02 am06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLDilution CAS No. Parameter Result Flag Units Reference Method Analyzed Prepared Analyst 06/30/2015 11:09 06/30/2015 15:36 mg/kg dry EPA 6010C 7440-38-2 Arsenic 5.26 1.15 ALD

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL CAS No. Parameter Result Units Dilution Reference Method Prepared Analyzed Analyst solids % 0.100 SM 2540G 06/27/2015 11:06 06/29/2015 15:16 % Solids 87.3

Sample Information

<u>Client Sample ID:</u> HA-13-N6 (0-1) <u>York Sample ID:</u> 15F0769-05

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015 9:06 am
 06/19/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<mark>7-0166</mark>

Page 4 of 44



HA-13-N6 (0-1) **Client Sample ID:** York Sample ID: 15F0769-05

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 06/19/2015

15F0769 140109002 Soil June 18, 2015 9:06 am

Sample Prepared by Method: EPA 3050B

CAS No	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		17.0		mg/kg dry	1.19	1	EPA 6010C	06/24/2015 13:33	06/24/2015 17:00	ALD

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RLDilution Units Reference Method CAS No. Parameter Result Flag Prepared Analyzed Analyst % solids % Solids 84.2 0.100 SM 2540G 06/22/2015 10:47 06/22/2015 15:54 KK

Sample Information

Client Sample ID: HA-13-N6 (1-2) York Sample ID: 15F0769-06

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 06/19/2015 15F0769 140109002 Soil June 18, 2015 9:07 am

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time Result RLCAS No. Units Dilution Reference Method Parameter Flag Analyzed Analyst Prepared 7440-38-2 EPA 6010C 06/30/2015 11:09 06/30/2015 15:40 4.81 mg/kg dry 1.18 ALD Arsenic

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time Parameter Result Units RL Dilution Reference Method Analyzed Analyst Prepared % 0.100 SM 2540G 06/27/2015 11:06 06/29/2015 15:16 solids % Solids 84.7

Sample Information

HA-13-N3 (0-1) York Sample ID: 15F0769-09 **Client Sample ID:**

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 15F0769 140109002 Soil June 18, 2015 9:11 am 06/19/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLDilution Units Reference Method Analyzed CAS No Result Flag Analyst Parameter Prepared 1 20 EPA 6010C 06/24/2015 13:33 06/24/2015 17:05 ALD 7440-38-2 7.16 mg/kg dry Arsenic

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 5 of 44

Data/Time

Data/Time



<u>Client Sample ID:</u> HA-13-N3 (0-1) <u>York Sample ID:</u> 15F0769-09

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015
 9:11 am
 06/19/2015

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS N	lo.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		83.0		%	0.100	1	SM 2540G	06/22/2015 10:47	06/22/2015 15:54	KK

Sample Information

Client Sample ID: HA-13-N5 (0-1) York Sample ID: 15F0769-13

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015
 9:16 am
 06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No	D.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		31.8		mg/kg dry	1.15	1	EPA 6010C	06/24/2015 13:33	06/24/2015 17:10	ALD

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		86.7		%	0.100	1	SM 2540G	06/22/2015 10:47	06/22/2015 15:54	KK

Sample Information

<u>Client Sample ID:</u> HA-13-N5 (1-2) <u>York Sample ID:</u> 15F0769-14

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015 9:17 am
 06/19/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2 Arse	nic	7.45		mg/kg dry	1.15	1	EPA 6010C	06/30/2015 11:09	06/30/2015 15:45	ALD

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<mark>7-0166</mark>

Page 6 of 44



Client Sample ID: HA-13-N5 (1-2) **York Sample ID:** 15F0769-14

Date Received York Project (SDG) No. Client Project ID Matrix Collection Date/Time

140109002 15F0769 Soil June 18, 2015 9:17 am 06/19/2015

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		86.6		%	0.100	1	SM 2540G	06/27/2015 11:06	06/29/2015 15:16	SCA

Sample Information

HA-10-W1 (1-2) **Client Sample ID:** York Sample ID: 15F0769-17

York Project (SDG) No. Client Project ID Collection Date/Time Matrix Date Received 15F0769 140109002 Soil June 18, 2015 9:21 am 06/19/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS No	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		4.93		mg/kg dry	1.13	1	EPA 6010C	06/24/2015 13:33	06/24/2015 17:14	ALD

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		88.4		%	0.100	1	SM 2540G	06/22/2015 10:47	06/22/2015 15:54	KK

Sample Information

Client Sample ID: HA-10-W2 (2-3) **York Sample ID:** 15F0769-20

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 140109002 06/19/2015 15F0769 Soil June 18, 2015 9:26 am

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		9.54		mg/kg dry	1.15	1	EPA 6010C	06/24/2015 13:33	06/24/2015 17:19	ALD

Log-in Notes: Total Solids Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		86.9		%	0.100	1	SM 2540G	06/22/2015 10:47	06/22/2015 15:54	KK

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 7 of 44



<u>Client Sample ID:</u> HA-10-W2 (2-3) <u>York Sample ID:</u> 15F0769-20

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015
 9:26 am
 06/19/2015

Sample Information

<u>Client Sample ID:</u> HA-22-S1 (2-3) <u>York Sample ID:</u> 15F0769-22

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015
 9:31 am
 06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLResult Flag Units Dilution Reference Method **Parameter** Prepared Analyzed Analyst EPA 6010C 06/24/2015 13:33 7440-38-2 ND 1.19 06/24/2015 17:36 ALD mg/kg dry Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RLCAS No Result Flag Units Dilution Reference Method Parameter Prepared Analyzed Analyst 06/22/2015 10:47 % 0.100 SM 2540G solids % Solids 83.7 06/22/2015 15:54 KK

Sample Information

<u>Client Sample ID:</u> HA-13-W1 (2-3) <u>York Sample ID:</u> 15F0769-24

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015
 9:36 am
 06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time Flag Units RLDilution Reference Method CAS No. Result Analyzed Analyst Parameter Prepared 7440-38-2 Arsenic 3.54 mg/kg dry 1.29 EPA 6010C 06/30/2015 11:09 ALD

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RLDilution CAS No. **Parameter** Result Flag Units Reference Method Prepared Analyzed Analyst solids % 0.100 SM 2540G 06/27/2015 11:06 06/29/2015 15:16 SCA % Solids 77.7

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<mark>7-0166</mark>

Page 8 of 44



<u>Client Sample ID:</u> HA-13-W3 (0-1) <u>York Sample ID:</u> 15F0769-26

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015 9:41 am
 06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RL. Parameter Result Units Dilution Reference Method Analyzed Prepared 7440-38-2 13.6 mg/kg dry 1.28 EPA 6010C 06/24/2015 13:33 06/24/2015 17:44 ALD Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL Dilution Reference Method Analyzed Result Flag Units Analyst Parameter Prepared SM 2540G 06/22/2015 10:47 06/22/2015 15:54 % 0.100 solids % Solids 78.1 KK

Sample Information

<u>Client Sample ID:</u> HA-13-W3 (1-2) <u>York Sample ID:</u> 15F0769-27

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15F0769140109002SoilJune 18, 2015 9:42 am06/19/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time CAS No. Result Units RL. Dilution Reference Method Analyzed Parameter Prepared Analyst 7440-38-2 6.78 mg/kg dry 1.20 EPA 6010C 06/30/2015 11:09 06/30/2015 15:55 ALD Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL Dilution Result Flag Units Reference Method CAS No. Parameter Prepared Analyzed Analyst solids % Solids 83.1 % 0.100 SM 2540G 06/27/2015 11:06 06/29/2015 15:16 SCA

Sample Information

<u>Client Sample ID:</u> HA-13-W4 (0-1) <u>York Sample ID:</u> 15F0769-30

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15F0769140109002SoilJune 18, 20159:46 am06/19/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 9 of 44



Client Sample ID: HA-13-W4 (0-1) **York Sample ID:** 15F0769-30

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received

15F0769 140109002 Soil June 18, 2015 9:46 am 06/19/2015

Date/Time

York Sample ID:

Date/Time

15F0769-34

Sample Prepared by Method: EPA 3050B

CAS I	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		5.83		mg/kg drv	1.18	1	EPA 6010C	06/24/2015 13:33	06/24/2015 17:49	ALD

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids % S	Solids	84.9		%	0.100	1	SM 2540G	06/22/2015 10:47	06/22/2015 15:54	KK

Sample Information

Client Sample ID: HA-13-SW1 (0-1)

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 140109002 06/19/2015 15F0769 Soil June 18, 2015 9:51 am

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS No).	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		11.7		mg/kg dry	1.19	1	EPA 6010C	06/24/2015 13:33	06/24/2015 17:53	ALD

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

CAS	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		84.0	ģ	%	0.100	1	SM 2540G	06/22/2015 10:47	06/22/2015 15:54	KK

Sample Information

Client Sample ID: HA-13-SW1 (1-2) York Sample ID: 15F0769-35

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 15F0769 140109002 Soil June 18, 2015 9:52 am 06/19/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		4.89		mg/kg dry	1.16	1	EPA 6010C	06/30/2015 11:09	06/30/2015 16:00	ALD

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 10 of 44



Client Sample ID: HA-13-SW1 (1-2)

York Sample ID:

15F0769-35

York Project (SDG) No. 15F0769 Client Project ID

Matrix

Collection Date/Time

Date Received

140109002

Soil

June 18, 2015 9:52 am

06/19/2015

<u>Total Solids</u> <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		86.2		%	0.100	1	SM 2540G	06/27/2015 11:06	06/29/2015 15:16	SCA

Sample Information

Client Sample ID: HA-13-SW2 (0-1)

York Sample ID:

15F0769-38

York Project (SDG) No. 15F0769

Client Project ID 140109002 Matrix Soil Collection Date/Time
June 18, 2015 9:56 am

D-4-/T:---

D-4-/T:---

Date Received 06/19/2015

Log-in Notes:

Sample Notes:

Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS No	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		5.84		mg/kg dry	1.19	1	EPA 6010C	06/24/2015 13:33	06/24/2015 17:58	ALD

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		84.3		%	0.100	1	SM 2540G	06/22/2015 10:47	06/22/2015 15:54	KK

Sample Information

<u>Client Sample ID:</u> HA-10-W3 (0-1) <u>York Sample ID:</u> 15F0769-42

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15F0769140109002SoilJune 18, 2015 10:01 am06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.		Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		15.5		mg/kg dry	1.21	1	EPA 6010C	06/24/2015 13:33	06/24/2015 18:03	ALD

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 11 of 44



<u>Client Sample ID:</u> HA-10-W3 (0-1) <u>York Sample ID:</u> 15F0769-42

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015 10:01 am
 06/19/2015

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		82.5		%	0.100	1	SM 2540G	06/22/2015 10:47	06/22/2015 15:54	KK

Sample Information

<u>Client Sample ID:</u> HA-10-W3 (1-2) <u>York Sample ID:</u> 15F0769-43

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15F0769140109002SoilJune 18, 2015 10:02 am06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Date/11me Analyzed	Analyst
7440-38-2	Arsenic		11.4		mg/kg dry	1.09	1	EPA 6010C	06/30/2015 11:09	06/30/2015 16:04	ALD

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		91.9		%	0.100	1	SM 2540G	06/27/2015 11:06	06/29/2015 15:16	SCA

Sample Information

<u>Client Sample ID:</u> HA-10-W3 (2-3) <u>York Sample ID:</u> 15F0769-44

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15F0769140109002SoilJune 18, 2015 10:03 am06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No).	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		3./3		mo/ko drv	1.10	1	EPA 6010C	07/02/2015 06:59	07/02/2015 09:48	ALD

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS N	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		91.2		%	0.100	1	SM 2540G	07/02/2015 09:15	07/02/2015 11:13	KK

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 12 of 44



<u>Client Sample ID:</u> HA-10-W3 (2-3) <u>York Sample ID:</u> 15F0769-44

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015 10:03 am
 06/19/2015

Sample Information

<u>Client Sample ID:</u> HA-10-W4 (0-1) <u>York Sample ID:</u> 15F0769-45

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015 10:06 am
 06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLResult Units Dilution Reference Method Parameter Prepared Analyzed Analyst 7440-38-2 7.14 mg/kg dry 1.19 EPA 6010C 06/24/2015 13:33 06/24/2015 18:08 ALD Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RLDilution CAS No. Parameter Result Flag Units Reference Method Analyzed Prepared Analyst % 0.100 SM 2540G 06/22/2015 10:47 06/22/2015 15:54 KK solids % Solids 83.8

Sample Information

<u>Client Sample ID:</u> HA-10-SW1 (0-1) <u>York Sample ID:</u> 15F0769-48

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15F0769140109002SoilJune 18, 2015 10:11 am06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLCAS No. Parameter Result Flag Units Dilution Reference Method Analyzed Analyst Prepared 7440-38-2 EPA 6010C 06/24/2015 13:33 06/24/2015 18:13 Arsenic 9.09 mg/kg dry

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL Dilution CAS No. Parameter Result Flag Units Reference Method Prepared Analyzed Analyst SM 2540G solids % Solids 88.7 % 0.100 06/22/2015 10:47 06/22/2015 15:54 KK

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 13 of 44



<u>Client Sample ID:</u> HA-10-SW2 (0-1) <u>York Sample ID:</u> 15F0769-52

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015 10:16 am
 06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RL. Parameter Result Units Dilution Reference Method Analyzed Prepared 7440-38-2 4.15 mg/kg dry 1.21 EPA 6010C 06/24/2015 13:33 06/24/2015 18:17 ALD Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL Dilution Reference Method Analyzed Result Flag Units Analyst Parameter Prepared SM 2540G 06/22/2015 10:47 06/22/2015 15:54 % 0.100 solids % Solids 82.6 KK

Sample Information

<u>Client Sample ID:</u> HA-10-SW3 (0-1) <u>York Sample ID:</u> 15F0769-56

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15F0769140109002SoilJune 18, 2015 10:21 am06/19/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time CAS No. Result Units RL. Dilution Reference Method Analyzed Parameter Prepared Analyst 7440-38-2 6.56 mg/kg dry 1.17 EPA 6010C 06/24/2015 13:33 06/24/2015 18:22 ALD Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL Dilution Flag Units Reference Method CAS No. Parameter Result Prepared Analyzed Analyst solids % Solids 85.3 % 0.100 SM 2540G 06/22/2015 10:47 06/22/2015 15:54

Sample Information

<u>Client Sample ID:</u> HA-5-E4 (0-1) <u>York Sample ID:</u> 15F0769-59

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15F0769140109002SoilJune 18, 2015 11:01 am06/19/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 14 of 44



Client Sample ID: HA-5-E4 (0-1) **York Sample ID:** 15F0769-59

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 15F0769 140109002 Soil June 18, 2015 11:01 am 06/19/2015

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2 Arsenic		7 15		mø/kø dry	1 30	1	EPA 6010C	06/24/2015 13:33	06/24/2015 18:40	ALD

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

CAS N	o. Pa	rameter Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
solids	% Solids	77.1		%	0.100	1	SM 2540G	06/22/2015 10:47	06/22/2015 15:54	KK

Sample Information

Client Sample ID: HA-5-E6 (0-1)

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 140109002 06/19/2015 15F0769 Soil June 18, 2015 11:06 am

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS No	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		31.7		mg/kg dry	1.27	1	EPA 6010C	06/24/2015 13:33	06/24/2015 18:44	ALD

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

	CAS No).	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
:	solids	% Solids		78.6		%	0.100	1	SM 2540G	06/22/2015 10:47	06/22/2015 15:54	KK

Sample Information

Client Sample ID: HA-5-E6 (1-2) **York Sample ID:** 15F0769-64

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 15F0769 140109002 Soil June 18, 2015 11:07 am 06/19/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS N	lo.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		4.44		mg/kg dry	1.19	1	EPA 6010C	06/30/2015 11:09	06/30/2015 16:09	ALD

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 15 of 44

York Sample ID:

15F0769-63



<u>Client Sample ID:</u> HA-5-E6 (1-2) <u>York Sample ID:</u> 15F0769-64

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015 11:07 am
 06/19/2015

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		83.8		%	0.100	1	SM 2540G	06/27/2015 11:06	06/29/2015 15:16	SCA

Sample Information

Client Sample ID: HA-5-E3 (0-1) York Sample ID: 15F0769-67

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015 11:11 am
 06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		11.1		mg/kg dry	1.26	1	EPA 6010C	06/24/2015 13:33	06/24/2015 18:49	ALD

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		79.6		%	0.100	1	SM 2540G	06/22/2015 10:47	06/22/2015 15:54	KK

Sample Information

<u>Client Sample ID:</u> HA-5-E3 (1-2) <u>York Sample ID:</u> 15F0769-68

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015 11:12 am
 06/19/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: EPA 3050B

CAS No) .	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		4.90	•	mg/kg dry	1.17	1	EPA 6010C	06/30/2015 11:09	06/30/2015 16:26	ALD

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<mark>7-0166</mark>

Page 16 of 44



Client Sample ID: HA-5-E3 (1-2) **York Sample ID:** 15F0769-68

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received

140109002 15F0769 Soil June 18, 2015 11:12 am 06/19/2015

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag Un	ts RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		85.6	%	0.100	1	SM 2540G	06/27/2015 11:08	06/29/2015 15:20	SCA

Sample Information

HA-5-E5 (0-1) **Client Sample ID:** York Sample ID: 15F0769-71

York Project (SDG) No. Client Project ID Collection Date/Time Matrix Date Received 15F0769 140109002 Soil June 18, 2015 11:16 am 06/19/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

	CAS No).	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7	7440-38-2	Arsenic		6.60		mg/kg dry	1.31	1	EPA 6010C	06/24/2015 13:33	06/24/2015 18:54	ALD

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		76.4		%	0.100	1	SM 2540G	06/22/2015 10:47	06/22/2015 15:54	KK

Sample Information

Client Sample ID: HA-5-N4 (0-1) **York Sample ID:** 15F0769-75

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 140109002 06/19/2015 15F0769 Soil June 18, 2015 11:21 am

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		62.1		mg/kg dry	1.12	1	EPA 6010C	06/24/2015 13:35	06/24/2015 20:08	ALD

Log-in Notes: Total Solids Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		89.1	Ç	%	0.100	1	SM 2540G	06/22/2015 10:47	06/22/2015 15:54	KK

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 17 of 44

Date/Time

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Date/Time



<u>Client Sample ID:</u> HA-5-N4 (0-1) <u>York Sample ID:</u> 15F0769-75

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015 11:21 am
 06/19/2015

Sample Information

<u>Client Sample ID:</u> HA-5-N4 (1-2) <u>York Sample ID:</u> 15F0769-76

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015 11:22 am
 06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLResult Units Dilution Reference Method Parameter Prepared Analyzed Analyst 7440-38-2 14.5 mg/kg dry 1.15 EPA 6010C 06/30/2015 11:09 06/30/2015 16:31 ALD Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RLDilution CAS No. Parameter Result Flag Units Reference Method Analyzed Prepared Analyst % 0.100 SM 2540G 06/27/2015 11:08 06/29/2015 15:20 SCA solids % Solids 87.2

Sample Information

<u>Client Sample ID:</u> HA-5-N4 (2-3) <u>York Sample ID:</u> 15F0769-77

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15F0769140109002SoilJune 18, 2015 11:23 am06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLCAS No. Parameter Result Flag Units Dilution Reference Method Analyzed Analyst Prepared 7440-38-2 1.23 EPA 6010C 07/02/2015 06:59 07/02/2015 10:04 Arsenic 4.88 mg/kg dry

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL Dilution CAS No. Parameter Result Flag Units Reference Method Prepared Analyzed Analyst SM 2540G solids % Solids 81.2 % 0.100 07/02/2015 09:15 07/02/2015 11:13 KK

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<mark>7-0166</mark>

Page 18 of 44



<u>Client Sample ID:</u> HA-5-N6 (0-1) <u>York Sample ID:</u> 15F0769-79

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015 11:26 am
 06/19/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RL. Parameter Units Dilution Reference Method Analyzed Prepared 7440-38-2 7.41 mg/kg dry 1.07 EPA 6010C 06/24/2015 13:35 06/24/2015 20:12 ALD Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL Dilution Reference Method Analyzed Result Flag Units Analyst Parameter Prepared SM 2540G 06/22/2015 10:48 06/22/2015 15:57 % 0.100 solids % Solids 93.7 KK

Sample Information

<u>Client Sample ID:</u> HA-5-N3 (0-1) <u>York Sample ID:</u> 15F0769-83

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015 11:31 am
 06/19/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLCAS No. Result Units Dilution Reference Method Analyzed Parameter Prepared Analyst 7440-38-2 55.8 mg/kg dry 1.18 EPA 6010C 06/24/2015 13:35 06/24/2015 20:17 ALD Arsenic

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL **Dilution** Flag Units Reference Method CAS No. Parameter Result Prepared Analyzed Analyst solids % Solids 84.5 % 0.100 SM 2540G 06/22/2015 10:48 06/22/2015 15:57

Sample Information

<u>Client Sample ID:</u> HA-5-N3 (1-2) <u>York Sample ID:</u> 15F0769-84

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15F0769140109002SoilJune 18, 2015 11:32 am06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 19 of 44



<u>Client Sample ID:</u> HA-5-N3 (1-2) <u>York Sample ID:</u> 15F0769-84

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015 11:32 am
 06/19/2015

Sample Prepared by Method: EPA 3050B

CAS	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		9.77	n	ng/kg dry	1.22	1	EPA 6010C	06/30/2015 11:09	06/30/2015 16:35	ALD

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS No.		Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		82.3		%	0.100	1	SM 2540G	06/27/2015 11:08	06/29/2015 15:20	SCA

Sample Information

<u>Client Sample ID:</u> HA-5-N5 (0-1) <u>York Sample ID:</u> 15F0769-87

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15F0769140109002SoilJune 18, 2015 11:36 am06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		13.3		mg/kg dry	1.06	1	EPA 6010C	06/24/2015 13:35	06/24/2015 20:22	ALD

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		94.3		%	0.100	1	SM 2540G	06/22/2015 10:48	06/22/2015 15:57	KK

Sample Information

<u>Client Sample ID:</u> HA-5-N5 (1-2) <u>York Sample ID:</u> 15F0769-88

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15F0769140109002SoilJune 18, 2015 11:37 am06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RL Dilution Result Units Reference Method Analyzed CAS No Flag Parameter Prepared Analyst 06/30/2015 16:40 7440-38-2 1.13 EPA 6010C 06/30/2015 11:09 ALD Arsenic 9.84 mg/kg dry

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 20 of 44

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Data/Time



<u>Client Sample ID:</u> HA-5-N5 (1-2) <u>York Sample ID:</u> 15F0769-88

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015 11:37 am
 06/19/2015

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS N	CAS No. Parameter		Result	Result Flag Units		RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		88.2		%	0.100	1	SM 2540G	06/27/2015 11:08	06/29/2015 15:20	SCA

Sample Information

Client Sample ID: HA-21-NE1 (0-1) York Sample ID: 15F0769-91

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015 11:41 am
 06/19/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: EPA 3050B

CAS No.		Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		25.5		mg/kg dry	1.17	1	EPA 6010C	06/24/2015 13:35	06/24/2015 20:27	ALD

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

CAS	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	_	85.8		%	0.100	1	SM 2540G	06/22/2015 10:48	06/22/2015 15:57	KK

Sample Information

<u>Client Sample ID:</u> HA-21-NE1 (1-2) <u>York Sample ID:</u> 15F0769-92

York Project (SDG) No.Client Project IDMatrixCollection Date/TimeDate Received15F0769140109002SoilJune 18, 2015 11:42 am06/19/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2 Arse	nic	9.86		mg/kg dry	1.24	1	EPA 6010C	06/30/2015 11:09	06/30/2015 16:45	ALD

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 21 of 44



Client Sample ID: HA-21-NE1 (1-2) **York Sample ID:** 15F0769-92

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 140109002 15F0769 Soil June 18, 2015 11:42 am 06/19/2015

Sample Prepared by Method: % Solids Prep

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		81.0		%	0.100	1	SM 2540G	06/27/2015 11:08	06/29/2015 15:20	SCA

Sample Information

HA-21-NE2 (0-1) **Client Sample ID:** York Sample ID: 15F0769-95

York Project (SDG) No. Client Project ID Collection Date/Time Matrix Date Received 15F0769 140109002 Soil June 18, 2015 11:46 am 06/19/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS No		Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		2.05		mg/kg dry	1.18	1	EPA 6010C	06/24/2015 13:35	06/24/2015 20:44	ALD

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

CAS No),	Parameter	Result Flag		Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		84.4		%	0.100	1	SM 2540G	06/22/2015 10:48	06/22/2015 15:57	KK

Sample Information

Client Sample ID: HA-10-NE1 (0-1) **York Sample ID:** 15F0769-99

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 140109002 06/19/2015 15F0769 Soil June 18, 2015 11:51 am

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic		41.7		mg/kg dry	1.10	1	EPA 6010C	06/24/2015 13:35	06/24/2015 20:49	ALD

Log-in Notes: Total Solids Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS N	lo.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/11me Prepared	Date/Time Analyzed	Analyst
solids	% Solids		91.3		%	0.100	1	SM 2540G	06/22/2015 10:48	06/22/2015 15:57	KK

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 22 of 44

D - 4 - /T!--- -



<u>Client Sample ID:</u> HA-10-NE1 (0-1) <u>York Sample ID:</u> 15F0769-99

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0769
 140109002
 Soil
 June 18, 2015 11:51 am
 06/19/2015

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 23 of 44



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: York Analytical Laboratories, Inc. Client: Langan Engineering & Environmental Serv

 Project Location:
 140109002
 Lab Project No.:
 15F0769

Laboratory Sample ID(s): 15F0769-01 - 15F0769-99 Sampling Date(s): 06/18/2015 - 06/18/2015

RCP Methods Used: See Narrative and Method Reference Section of this Technical Report

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

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

This form may not be altered and all questions must be answered.

I, the	unders	signe	d, attest	under th	ne pai	ns an	d penalties	of p	erjury	that,	to t	he best	of my	knowled	lge	and	belief	and
based	upon	my	personal	inquiry	of	those	responsible	for	provid	ding	the	informat	ion c	ontained	in	this	analy	tical
report	such i	nform	nation is a	ccurate	and co	mplet	e.											

Authorized Signature:

Be III

Position: Laboratory Director

Printed Name: Benjamin Gulizia Date: 07/06/2015

YORK



Case Narrative

Client: Langan Engineering & Environmental Services (CT)
Client Project ID: 140109002
Prepared for: Justin Hall

Introduction

This Case Narrative applies to the following samples submitted to our laboratory on 6/19/2015 1:50:00 PM:

HA-10-NE1 (0-1)	Soil
HA-10-SW1 (0-1)	Soil
HA-10-SW2 (0-1)	Soil
HA-10-SW3 (0-1)	Soil
HA-10-W1 (1-2)	Soil
HA-10-W2 (2-3)	Soil
HA-10-W3 (0-1)	Soil
HA-10-W3 (1-2)	Soil
HA-10-W4 (0-1)	Soil
HA-13-N3 (0-1)	Soil
HA-13-N4 (0-1)	Soil
HA-13-N4 (1-2)	Soil
HA-13-N5 (0-1)	Soil
HA-13-N5 (1-2)	Soil
HA-13-N6 (0-1)	Soil
HA-13-N6 (1-2)	Soil
HA-13-SW1 (0-1)	Soil
HA-13-SW1 (1-2)	Soil
HA-13-SW2 (0-1)	Soil
HA-13-W1 (2-3)	Soil
HA-13-W3 (0-1)	Soil
HA-13-W3 (1-2)	Soil
HA-13-W4 (0-1)	Soil
HA-21-NE1 (0-1)	Soil
HA-21-NE1 (1-2)	Soil
HA-21-NE2 (0-1)	Soil
HA-22-S1 (2-3)	Soil
HA-5-E3 (0-1)	Soil
HA-5-E3 (1-2)	Soil
HA-5-E4 (0-1)	Soil
HA-5-E5 (0-1)	Soil
HA-5-E6 (0-1)	Soil
HA-5-E6 (1-2)	Soil
HA-5-N3 (0-1)	Soil
HA-5-N3 (1-2)	Soil
HA-5-N4 (0-1)	Soil

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 25 of 44



HA-5-N4 (1-2)	Soil
HA-5-N5 (0-1)	Soil
HA-5-N5 (1-2)	Soil
HA-5-N6 (0-1)	Soil

The 99 sample(s) were received intact in a custody-sealed cooler unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (2-6oC) and documented as:

Cooler 4.9 C

Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

Preparation and analysis were conducted according to the SW-846 methods, as detailed in the sample information table, and the requirements of the State of Connecticut Reasonable Confidence Protocols (RCP).

For initial calibrations (ICAL), initial calibration verifications (ICV) and continuing calibration verifications (CCV) for organics determined by GC/MS methods (TO15 volatiles, 8260 volatiles and 8270 semi-volatiles) all method criteria and laboratory SOP criteria were met unless otherwise noted below. Any compounds in the ICAL, ICV or CCV exceeding RCP specified limits are available upon request. This data is not used for Data Quality Assessment or Data Usability Evaluation (assignment of compound bias) which are determined from other lines of evidence. Therefore the data is not detailed in this narrative.

These terms may be used interchangeably. Both are measures of the accuracy of an analysis by measurement of a known material from a source other than that used for calibration. By definition, a **Standard Reference Material** (**SRM**) is a material containing known levels of analytes used to evaluate the performance of the analytical system with respect to a defined set of acceptance criteria. It is processed exactly as a sample. An **LCS** (**Laboratory Control Sample**) is second-source standard containing known levels of analyte(s), treated exactly as a sample, run with each analytical batch. Both are metrics used to establish accuracy of the preparation/analysis methods.

Metals – Total (Arsenic)

No problems were encountered during analysis of the samples, other than detailed below.

Method Blank

No target analyte was detected at or above the RL in the method blanks.

Batch QC

Four Standard Reference Materials and MS/Dup analysis on samples "HA-13-N4 (0-1)" and "HA-10-W3 (2-3)" were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias



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Dilutions

No sample dilutions were required.



Analytical Batch Summary

Batch ID:	BF51049	Preparation Method:	% Solids Prep	Prepared By:	KK
YORK Sam	ple ID	Client Sample ID	Preparation Date		
15F0769-01		HA-13-N4 (0-1)	06/22/15		
BF51049-D	UP1	Duplicate	06/22/15		
Batch ID:	BF51051	Preparation Method:	% Solids Prep	Prepared By:	KK
YORK Sam	ple ID	Client Sample ID	Preparation Date		
15F0769-05		HA-13-N6 (0-1)	06/22/15		
15F0769-09		HA-13-N3 (0-1)	06/22/15		
15F0769-13		HA-13-N5 (0-1)	06/22/15		
15F0769-17		HA-10-W1 (1-2)	06/22/15		
15F0769-20		HA-10-W2 (2-3)	06/22/15		
15F0769-22		HA-22-S1 (2-3)	06/22/15		
15F0769-26		HA-13-W3 (0-1)	06/22/15		
15F0769-30		HA-13-W4 (0-1)	06/22/15		
15F0769-34		HA-13-SW1 (0-1)	06/22/15		
15F0769-38		HA-13-SW2 (0-1)	06/22/15		
15F0769-42		HA-10-W3 (0-1)	06/22/15		
15F0769-45		HA-10-W4 (0-1)	06/22/15		
15F0769-48		HA-10-SW1 (0-1)	06/22/15		
15F0769-52		HA-10-SW2 (0-1)	06/22/15		
15F0769-56		HA-10-SW3 (0-1)	06/22/15		
15F0769-59		HA-5-E4 (0-1)	06/22/15		
15F0769-63		HA-5-E6 (0-1)	06/22/15		
15F0769-67		HA-5-E3 (0-1)	06/22/15		
15F0769-71		HA-5-E5 (0-1)	06/22/15		
15F0769-75		HA-5-N4 (0-1)	06/22/15		
BF51051-D		Duplicate Duplicate	06/22/15		
Batch ID:	BF51052	Preparation Method:	% Solids Prep	Prepared By:	KK
YORK Sam	ple ID	Client Sample ID	Preparation Date		
			<u> </u>		
15F0769-79 15F0769-83		HA-5-N6 (0-1)	06/22/15		
		HA-5-N3 (0-1)	06/22/15		
15F0769-87		HA-5-N5 (0-1)	06/22/15		
15F0769-91		HA-21-NE1 (0-1)	06/22/15		
15F0769-95		HA-21-NE2 (0-1)	06/22/15		
15F0769-99		HA-10-NE1 (0-1)	06/22/15		
Batch ID:	BF51211	Preparation Method:	EPA 3050B	Prepared By:	ALD
YORK Sam	ple ID	Client Sample ID	Preparation Date		
15F0769-01		HA-13-N4 (0-1)	06/24/15		
15F0769-05		HA-13-N6 (0-1)	06/24/15		
15F0769-09		HA-13-N3 (0-1)	06/24/15		

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 35<u>7-0166</u>

Page 28 of 44



15F0769-13	HA-13-N5 (0-1)	06/24/15
15F0769-17	HA-10-W1 (1-2)	06/24/15
15F0769-20	HA-10-W2 (2-3)	06/24/15
15F0769-22	HA-22-S1 (2-3)	06/24/15
15F0769-26	HA-13-W3 (0-1)	06/24/15
15F0769-30	HA-13-W4 (0-1)	06/24/15
15F0769-34	HA-13-SW1 (0-1)	06/24/15
15F0769-38	HA-13-SW2 (0-1)	06/24/15
15F0769-42	HA-10-W3 (0-1)	06/24/15
15F0769-45	HA-10-W4 (0-1)	06/24/15
15F0769-48	HA-10-SW1 (0-1)	06/24/15
15F0769-52	HA-10-SW2 (0-1)	06/24/15
15F0769-56	HA-10-SW3 (0-1)	06/24/15
15F0769-59	HA-5-E4 (0-1)	06/24/15
15F0769-63	HA-5-E6 (0-1)	06/24/15
15F0769-67	HA-5-E3 (0-1)	06/24/15
15F0769-71	HA-5-E5 (0-1)	06/24/15
BF51211-BLK1	Blank	06/24/15
BF51211-DUP1	Duplicate	06/24/15
BF51211-MS1	Matrix Spike	06/24/15
BF51211-SRM1	Reference	06/24/15

Datab ID. DE51212 Description Mathed. EDA 2050D Description ALD				
	Batch ID: BF51212	Preparation Method:	EPA 3050B	Prepared By: ALI

YORK Sample ID	Client Sample ID	Preparation Date	
15F0769-75	HA-5-N4 (0-1)	06/24/15	
15F0769-79	HA-5-N6 (0-1)	06/24/15	
15F0769-83	HA-5-N3 (0-1)	06/24/15	
15F0769-87	HA-5-N5 (0-1)	06/24/15	
15F0769-91	HA-21-NE1 (0-1)	06/24/15	
15F0769-95	HA-21-NE2 (0-1)	06/24/15	
15F0769-99	HA-10-NE1 (0-1)	06/24/15	
BF51212-BLK1	Blank	06/24/15	
BF51212-SRM1	Reference	06/24/15	

Batch ID:	BF51394	Preparation Method:	% Solids Prep	Prepared B	y: KK
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YORK Sample ID	Client Sample ID	Preparation Date	
15F0769-02	HA-13-N4 (1-2)	06/27/15	
15F0769-06	HA-13-N6 (1-2)	06/27/15	
15F0769-14	HA-13-N5 (1-2)	06/27/15	
15F0769-24	HA-13-W1 (2-3)	06/27/15	
15F0769-27	HA-13-W3 (1-2)	06/27/15	
15F0769-35	HA-13-SW1 (1-2)	06/27/15	
15F0769-43	HA-10-W3 (1-2)	06/27/15	
15F0769-64	HA-5-E6 (1-2)	06/27/15	

Batch ID:	BF51395	Preparation Method:	% Solids Prep	Prepared By	: KK
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YORK Sample ID	Client Sample ID	Preparation Date	
15F0769-68	HA-5-E3 (1-2)	06/27/15	
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15F0769-76	HA-5-N4 (1-2)	06/27/15
15F0769-84	HA-5-N3 (1-2)	06/27/15
15F0769-88	HA-5-N5 (1-2)	06/27/15
15F0769-92	HA-21-NE1 (1-2)	06/27/15

131 0707-72	HA-21-NET (1-2)	00/27/13		
Batch ID: BF51516	Preparation Method:	EPA 3050B	Prepared By:	ALD
YORK Sample ID	Client Sample ID	Preparation Date		
15F0769-02	HA-13-N4 (1-2)	06/30/15		
15F0769-06	HA-13-N6 (1-2)	06/30/15		
15F0769-14	HA-13-N5 (1-2)	06/30/15		
15F0769-24	HA-13-W1 (2-3)	06/30/15		
15F0769-27	HA-13-W3 (1-2)	06/30/15		
15F0769-35	HA-13-SW1 (1-2)	06/30/15		
15F0769-43	HA-10-W3 (1-2)	06/30/15		
15F0769-64	HA-5-E6 (1-2)	06/30/15		
15F0769-68	HA-5-E3 (1-2)	06/30/15		
15F0769-76	HA-5-N4 (1-2)	06/30/15		
15F0769-84	HA-5-N3 (1-2)	06/30/15		
15F0769-88	HA-5-N5 (1-2)	06/30/15		
15F0769-92	HA-21-NE1 (1-2)	06/30/15		
BF51516-BLK1	Blank	06/30/15		
BF51516-SRM1	Reference	06/30/15		
Batch ID: BG50096	Preparation Method:	EPA 3050B	Prepared By:	ALD
YORK Sample ID	Client Sample ID	Preparation Date		
15F0769-44	HA-10-W3 (2-3)	07/02/15		
15F0769-77	HA-5-N4 (2-3)	07/02/15		
BG50096-BLK1	Blank	07/02/15		
BG50096-DUP1	Duplicate	07/02/15		
BG50096-MS1	Matrix Spike	07/02/15		
BG50096-SRM1	Reference	07/02/15		
Batch ID: BG50113	Preparation Method:	% Solids Prep	Prepared By:	KK
YORK Sample ID	Client Sample ID	Preparation Date		
15F0769-44	HA-10-W3 (2-3)	07/02/15		
15F0769-77	HA-5-N4 (2-3)	07/02/15		



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

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag
Batch BF51211 - EPA 3050B											
Blank (BF51211-BLK1)							Prep	ared & Anal	yzed: 06/24/	2015	
Arsenic	ND	1.00	mg/kg wet								
Duplicate (BF51211-DUP1)	*Source sample: 15	F0769-01 (H	IA-13-N4 (0-	1))			Prep	ared & Anal	yzed: 06/24/	2015	
Arsenic	10.1	1.10	mg/kg dry		11.2				10.2	35	
Matrix Spike (BF51211-MS1)	*Source sample: 15	F0769-01 (E	IA-13-N4 (0-	1))			Prep	ared & Anal	yzed: 06/24/	2015	
Arsenic	220	1.10	mg/kg dry	220	11.2	94.6	75-125				
Reference (BF51211-SRM1)							Prep	ared & Anal	yzed: 06/24/	2015	
Arsenic	110	1.00	mg/kg wet	122		90.2	70-145.1				
Batch BF51212 - EPA 3050B											
Blank (BF51212-BLK1)							Prep	ared & Anal	yzed: 06/24/	2015	
Arsenic	ND	1.00	mg/kg wet								
Reference (BF51212-SRM1)							Prep	ared & Anal	yzed: 06/24/	2015	
Arsenic	114	1.00	mg/kg wet	122		93.8	70-145.1				
Batch BF51516 - EPA 3050B											
Blank (BF51516-BLK1)							Prep	ared & Anal	yzed: 06/30/	2015	
Arsenic	ND	1.00	mg/kg wet								
Reference (BF51516-SRM1)							Prep	ared & Anal	yzed: 06/30/	2015	
Arsenic	113	1.00	mg/kg wet	122		92.6	70-145.1				



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

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag
Batch BG50096 - EPA 3050B											
Blank (BG50096-BLK1)							Prep	ared & Analy	yzed: 07/02/2	2015	
Arsenic	ND	1.00	mg/kg wet								
Duplicate (BG50096-DUP1)	*Source sample: 15F	0769-44 (H.	A-10-W3 (2-	-3))			Prep	ared & Analy	yzed: 07/02/2	2015	
Arsenic	3.24	1.10	mg/kg dry		3.43				5.93	35	
Matrix Spike (BG50096-MS1)	*Source sample: 15F	0769-44 (H.	A-10-W3 (2-	-3))			Prep	ared & Analy	yzed: 07/02/2	2015	
Arsenic	225	1.10	mg/kg dry	219	3.43	101	75-125				
Reference (BG50096-SRM1)							Prep	ared & Analy	yzed: 07/02/2	2015	
Arsenic	114	1.00	mg/kg wet	122		93.6	70-145.1				



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

		Reporting		Spike	Source*		%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	Flag	RPD	Limit	Flag
Batch BF51049 - % Solids Prep											
Duplicate (BF51049-DUP1)	*Source sample: 15	F0769-01 (H	A-13-N4 (0)-1))			Prep	ared & Anal	yzed: 06/22/	2015	
% Solids	ND	0.100	%		90.8					20	
Batch BF51051 - % Solids Prep											
Duplicate (BF51051-DUP1)	*Source sample: 15	F0769-75 (H	A-5-N4 (0-	1))			Prep	ared & Anal	yzed: 06/22/	2015	
% Solids	ND	0.100	%		89 1					20	



Notes and Definitions

M-CCVO CCV Out. Samples bracketed by acceptable CCVs.

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

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

LOD

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.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Revision Description: Client took more samples off hold

YORK KANATRAL LASORATOR IN

YDRK ANALYTIDAL LABDRATORIES

120 RESEARCH DR.

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FAX (203) 357-0166

This

Field Chain-of-Custody Record

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York Project No. 1SF0769

20

Femperature 17 'Y on Receipt Electronic Data Deliverables (EDD) Other 104 Kork Regulatory Comparison NJDEP SRP HazSite EDD Report Type CTRCP DQA/DUE fkg Summary w/ QA Summary Description(s) Container NY ASP A Package NY ASP B Package NJDEP Red. Deliv. 1-402 Jar CT RCP Package NYSDEC EQuIS EZ-EDD (EQuIS) Excel Spreadsheet GIS/KEY (std) CIDEEP Simple Excel EQuIS (std) **Turn-Around Time** Choose Analyses Needed from the Menu Above and Enter Below Standard(5-7 Days) 文 NaOH Part 360-Routine | Heterotrophs Aquatic Tox Flash Point Sieve Anal gnitability RUSH - Same Day RUSH - Three Day RUSH - Four Day Part 360-Equaded BTU/Ib. Part 360 Boseline TOX Misc. Org. Full Lists TCL Oganics Full App. IX NYCDEPSowr TAL MetCN Full TCLP NYSDECsever Pri.Poll. Air TO14A TPH DRO NY 310-13 Samples PH GRO TPH 1664 **Air STARS** CT ETPH Air VPH Methane AirTICs Purchase Order No. Other YOUR Project ID TCLP Herb SPLPGTCLP Indiv. Metak LIST Belov 140169002 Metals TAGM list NJDEP list TCLP Pest Dissolved Samples from: CT NY CT15 list PP13 list 019-15 12:45 Date/Time Date/Time Ascorbic Acid Semi-Vols. Pest/PCB/Herb 8270 or 625 8082PCB SPLPorTCLP Chlordane 8151Herb Site Spec. 8081Pest 608 Pest CTRCP App. IX NJDEP list App. IX
SPLP or TCLP BNA CT RCP list * HOLD & HOLD STARS list Acids Only NJDEP list TAGM list HOLD anoH * JUDH & TCL list 270He * HOUD PAH list Samples Relinquished By Samples Relinquished By Nassau Co. Suffolk Co. Site Spec. Oxygenates TCLP list Ketones Invoice To: 502.2 CT RCP list 524.2 Volatiles Arsenic Arom. only TAGM list App.IX list Halog.only Print Clearly and Legibly. All Information must be complete. 8260 toll TCL list E-Mail Address: Samples will NOT be logged in and the turn-around time 624 Phone No. Attention: clock will not begin until any questions by York are resolved. Other - specify(oil, etc.) DW - drinking water Address: Sample Matrix Check those Applicable GW - groundwater Matrix Codes WW - wastewater Air-A - ambient air Field Filtered

Lab to Filter Preservation Air-SV - soil vapor Instructions Report To: Date/Time Sampled 9:12 90,19 9:62 9:03 po:p 90.19 4:07 60.6 =:0 9:0) 51.2 N3 (1-2) V 9:12

Somments

Some and samples with authorized by Samples Collected/Authorized By (Signature) E-Mail Address: Эпопе №. Address: Attention: 6-18-15 Name (printed) company: Langer Engineering E-Mail Address: JHWI @Congen YOUR Information Sample Identification Address: SSS LOWY Whart Phone No. \$03 - 562 - 577 | Contact Person: Justin Hall 11A-13-N3 (0-1) HA-13-N6 (1-2) 23 74-13-NY (3-4) HA-13-NG (0-1 New Haven 1A-13-NY (0-1 HA-13-N6 11A-13-N6 4A-13-NY 4A-13-NY

YORK ANALYTIGAL LABORATORIES STRATFORD, CT 06615 Fax (203) 357-0166 120 RESEARCH DR. (203) 325-1371

Field Chain-of-Custody Record

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signature binds you to York's Std. Terms & Conditions. 01107

Page 2 of 13 York Project No.

YOUR Information	Report To:		Invoice To:	YOUR Project ID	Turn-Around Time	Report Type	-
Company: Largan Engineeriy	Company:	Company:		700601011	RUSH - Same Day RUSH - Next Day	Summary Report Summary W/ QA Summary CT D CD Doodcoop	**
New Haven Ct Phone No. 208-562-577	Phone No.	Phone No.	Stale	Purchase Order No.	RUSH - Two Day RUSH - Three Day	CTRCP DQA/DUE Pkg	
Contact Person: (154)	Attention:	Attention:			RUSH - Four Day	NY ASP B Package NIDEP Red. Deliv	
	E-Mail Address:	E-Mail Address:	iress:	NY X	tandard(5-7	Electronic Data Deliverables (EDD)	
Print Clearly and Legibly. All Information must be complete. 2566 541	4ll Information m	ust be complete.	Volatiles	Semi-Vols. PestPCBHerd Metals Misc. Org. 8270 ar 635 sossage prove at the Color.	rg. Full Lists Misc.	Simple Excel	
Samples will NOT be logged in and the turn-around time	red in and the tu	rn-around time	Site Spec.	t 8081Pest PP13 list	TCL Ognis	EQuIS (std)	
clock will not begin until any questions by York are resolved.	ny questions by Yo	rk are resolved.	STARS list Nassau Co. BN Only RTHX Suffell Co. Acids Only	mly 8151Herb TAL CTETPH	TAL MetCN Ignitability	EZ-EDD (EQuIS)	
R	1011	Matrix Codes	MTBE Ketones	App. IX TAGM list	Full App. IX	GIS/KEY (std)	
1 de de		Other - specify(oil, etc.)	Oxygenates TCLP list	CT RCP list SPLPorTCLP Total Air TO15	A Part 360-Baseline TOX	Other Oak York Regulatory Comparison	
73	d By (Signature)	WW - wastewater GW - groundwater	CT RCP list 524.2 TCL list Arom. only 502.2 NJDEP list	list TCLP Pest Dissolved Air STARS P list TCLP Herb SPIPOTCLP Air VPH	Part 360-Expressed BTU/Ib. No Dioxins Transport Part 360-Expressed Aquatic Tox.	Excel Spreadsheet Compare to the following Regs. (please fill in):	
Name (printed)		DW - drinking water Air-A - ambient air Air-SV - soil vapor	Halog-only NJDEP list App. IX App.IX list SPIPGTICIP TCLP BNA 80218 list	App. IX Chlordane Indix,Metak Air TICs TCLP BNA 608 Pest LIST Below Methane SPI PORTITO 608 PCR Helium	NYCOEP Sever TOC NYSOECSever Asbestos TAGM	CTDEEP RSRS	
Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses I	led from the Me	ove and Enter Below	Container Description(s)	
HA-13-N3 (2-3)	81:6 51-81-9	9	Arsanic *	G70H as		1-402 Jar	
HA-13-N3 (3.4)	tu:6			2 HOLD		-	
1.	91:6						
HA-13-NS (1-2)	41.17		*	* HOLD		11	
HA-13-NS (2-3)	9118		¢.	Hora			
HA-13-NS (3-4)	9:19		8	# HOLD			
HA-10-W/ (1-2)	9:21						
4.A-16-W1 (2-3)	9:22		ৰ	HOLD			-
(h-E) (N-01-4)	9:23		*	# HOLD			ALC: NAME OF TAXABLE PARTY.
A-10-W2 (2-3)	A 9:2€	~>	→	去		>	
e omments		Preservation Check those Applicable	4°C Frozen H	HCI MeOH HNO3	HSO, NaOH	Temperature	
a) Pleuse hold with authorized by Langur	nzed by Langen	Special Instructions	(SALUM)	G-19-15 12:45	116/19/11	S 12:45 on Receipt	
44		Field Filtered	Samples Relinquished By	3y Date/Time Semples Re	Seived By 6/19	pate/Time 4.9 °C	
Ī			Samples Relinquished Bv	Date/Time	Samples Received in LAB by D	Date/Time	_

YORK ANALYTIGAL LABORATORIES STRATFORD, CT 06615 120 RESEARCH DR. (203) 325-1371

FAX (203) 357-0166

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Page 3 of 13 York Project No. 15F6769

YOUR Information	Report To:		Invoice To:	YOUR Project ID	Turn-Around Time	Report Type
Company: Callyon Fresholt in	Company:			700601071	RUSH - Same Day RUSH - Next Day	Summary Report Summary W/ QA Summary
Address: SSS Corres Water CT		Address:	VANA V	Purchase Order No.	RUSH - Two Day	CTRCP DQA/DUE Pkg
Phone No. 203-562-577		Phone No.	76		RUSH - Inree Day	NY ASP B Package
Contact Person: Justin Hull	Auention:	E Mail Address:		Samples from: CT NY NJ	Standard(5-7 Days)	NJDEP Ked. Deliv. Electronic Data Deliverables (EDD)
E-Mail Address: JHall (County)	E-Iviali Address:	NU III T	Volatiles	Semi-Vols. Pest/PCB/Herh Metals Misc. Org.	Full Lists Misc.	Simple Excel
Print Clearly and Legibly. All Information must be complete.	All Information mi	ust be complete.	full TICs	8082PCB RCRA8	Pri.Poll.	NYSDEC EQuIS
Samples will NOT be logged in and the turn-around time	ged in and the ful	rn-around time	STARS list Nassau Co. BN Only	8151Herb TAL	TAL MetCN	EZ-EDD (EQuIS)
Ctock with not see the mind and questions by tothe are resorred.	ny questions by to	Matrix Codes	BTEX Suffolk Co. Acids Only MTBF Retones PAH list	Only CTRCP CT15 list NY 310-13 ist App. IX TAGM list TPH 1664	13 Full TCLP Flash Point 4 Full App. IX Sieve-Anal.	NJDEP SRP HazSite EDD
		S - soil	Oxygenates	Site Spec. NJDEP list	Part 360-Routine	Other par
Samples Collected/Authorized By (Signature)	d By (Signature)	Other - specify(oil, etc.) WW - wastewater GW - groundwater	TAGM list TCLP list CT RCP list CT RCP list 524.2 TCL list Arom only 502.2 NIDEP list	St TCLP Pest Dissolved Air STARS Plist TCLP Herb SPIPO-TCLP Air VPH	S Part 360-Execute I OA. S Part 360-Execute BTU/Ib. Part 360-Execute Actuatic Tox.	York Regulatory Comparison Excel Spreadsheet Common to the following Rese follows
Jushin Hall	(1		NJDEP list SPLP or TCLP	Chlordane Indiv. Mens VA 608 Pest CIST Below	NYCDEP Sewer TOC NYSDEC Sewer Asbestos TACM Stilling	CIDEEP PSRS
Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses I	om the Me	ove and Enter Below	Container Description(s)
11A-16-WZ (3-4)	12:6 SI-81-9	S	Arsnie *	*Hous		1-402 Jar
(2-2)	18:16					_
14-22-51 (3-4)	9132		R	there		
UA-13-WI (2-3)	98:16		*	#17#		
44-13-W1 (3-4)	LE:10		8.	* How		
H.A-13-W3 (0-1)	hib					
HA-13-W3 (1-2)	Zh:b		Q	the Hour		
HA-13-W3 (2-3)	Shib		75	* Hoco		
1-13-W3 (3-4)	Harib		24	# HOLD		
(1-0) +M-21-4pa	9h;b →	→	V			\rightarrow
o omments		Preservation Check those Applicable	4°C Frøgen H	HCI MeOH HNO3	H,SO, NaOH	_/ Temperature
of = please hold until authorized	authorized by	Special Instructions	asked M	us	10 5/19	118 12 14 on Receipt
(mbur)		Field Filtered Lab to Filter	Samples Relinquished By	Date/Time	Samples Received By (19/19)	sate/Time 4.9 °C
			Samples Relinquished By	Date/Time	Samples Received in LAB by Da	Date/Time

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of 13 York Project No. 140769 Page 4

YOUR Information	Report To:		Invoice To:	YOUR Project ID	Turn-Around Time	Report Type
Company: LANGON CHAINER NA Address: 55 (Com. When F D.	Company:	Company:		700601071	RUSH - Same Day RUSH - Next Day	Summary Report Summary W/ QA Summary CT RCP Package
New Have	Phone No.	Phone No.	3	Purchase Order No.	RUSH - Two Day RUSH - Three Day	CTRCP DQA/DUE PkgNY ASP A Package
Contact Person: Ashin Holl	Attention:	Attention:			RUSH - Four Day	NY ASP B Package NIDEP Red. Deliv.
F-Mail Address: Thull O Cours	- E-Mail Address:	E-Mail Address:		Samples from: CTN NY NJ	Standard(5-7 Days)	Electronic Data Deliverables (EDD)
Print Clearly and Legibly All Information must be complete	All Information m.	ist he complete.	Volatiles	S. Pest/PCB/Herla Metals	Full Lists	Simple Excel
Samples will NOT be logged in and the turn-around time	sed in and the tur	n-around time	624 Site Spec. STARS list	S list 8081Pest PP13 list TPH DRO	O TCL Oganics Reactivity	EQuIS (std)
clock will not begin until any questions by York are resolved	ny questions by You	rk are resolved.	STARS list	ly 8151Herb TAL CTETPH		EZ-EDD (EQuIS)
		Matrix Codes	Ketones	App. IX TAGM list	Full App. IX	GIS/KEY (std)
Samples Collected/Authorized By (Signature)	d By (Signature)	N - V	list TCLP list	ist SPLPorTCLP Total TCLP Pest Dissolved	4	Other CAL York Regulatory Comparison Excel Spreadsheet
Name (printed)	1)	DW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor	y 502.2 y NJDEP list it SPLPorTCLP	App. IX Chlordane Indicate Air TICs TCLP BNA 608 Pest (LISTBalen Methons of the Control Act of the Control A	Part Soft-benned Adduct 10x. NYODE-Sever TOC NYSDECS-war Asbestos	Compare to the following Regs, (please full in):
Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses N	om the Me	ove and Enter Below	Container Description(s)
44-13-W4 (1-2)	1-18-15 P:47	V.	AGYNIC.	A He CD		1- 402 Jar
HA-13-WY (2-3)	8416			4 Hou		
44-B-W4 (3-4)	bh; b			G170H*		
HA-13-SW (0-1)	9:51					
(14-13-5W) (1-2)	25:16			Chord September 1		
HA-13-SWI (2-3)	6516			4 Horb		
~	HS:b			# Hoch		
14.13-5W2 (0-1)	95:6					
14-13-5W2 (1-2)	4:57		2	* Hoco		
DA A-13-5WZ (2-3)	85:6	→	>			7
e comments		Preservation Check those Applicable	4°C Frozen H	HCI MeOH HNO3	H ₂ SO ₊ NaOH	Temperature
go = Please hold untin authorical	authorized by	Special Instructions		6-19-15 12:45	(9 6/19)	10145 on Receipt
		Field Filtered	calmines Relinduished b	Date/ IIIIe	10	5 /350 7:9°C
0			Samples Relinquished By	Date/Time	Samples Received in LAB bly Da	Date/Time



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York Project No. 15F076 4

Turn-Around Time Report Type	RUSH - Same Day Summary Report Summary W/ QA Summary CT RCP Package	RUSH - Three Day CTRCP DQA/DUE Pkg NY ASP A Package NY ASP B Package NY ASP B Package	<u>§</u>	Full Lists Misc. Simple Excel	Pri.Poll. (TCL Oggnics 1	TAL MetCN legriability EZ-EDD (EQuIS) Full TCLP Flash Point NTDPP SRP H32Sire FDD	Sieve Anal. Heterotrophs	50 d		ve and Enter Below Description(s)	1-402 Jar	-								7.	H ₂ SO ₊	LellUS12.78 on Receipt	
YOUR Project ID	140109002	Purchase Order No.	Samples from: CT XAY NJ Si	Semi-Vols. PeetPCBHerb Metals Misc. Org.	8270 α 625 8082PCB RCRA8 STARS list 8081Pest PP13 list	1Co. BN Only 8151Herb TAL CT ETPH KCo. Acids Only CT RCP CT15 list NY 310-13	PAH list App. IX TAGM list TAGM list Site Spec. NJDEP list	list	NJDEP list App. IX Chlordane India.Ments Air TICs SPIPOTICIP TCLP BNA 608 Pest LISTBelow Methane SPIPOTICIP 608 PCR	om the Me	* Horr)		* Head	* Hour		St Hour	# Hour		droft as	Choth	HCI ZnAc	Shiz1 SI-61-9	
Invoice To:	Company:	Phone No.	Attention: E-Mail Address:			resolved. STARS list Nassau Co. BTEX Suffolk Co.	MTBE	etc.)	vater Halog.only App.IX list	Sample Matrix Choose Ar	Arsenic	_								è	Preservation 4°C Frozen	cial ctions	
Report To:	Company: Address:	Phone No.	Attention: E-Mail Address:	(Il Information must be a	ed in and the turn-arou	ty questions by York are 1	Matrix S- soil	WW-	DW - Air-A- Air-A- Air-SV	Date/Time Sampled Sample	5 65.6 51.81.9	(0:0)	20:01	(0:03	(0: 06	10:07	80:01	[1:0]	21:01	↓ 10:13 ↓	Preser Check those	3	
YOUR Information	on Enginee	New Haven CT Phone No. 203-562-5771	E-Mail Address: The [[Cowaw	Drint Clouds and Louists	Samples will NOT be logged in and the turn-around time	clock will not begin until any questions by York are resolved.	The state of the s	なら	Name (printed)	Sample Identification	HA-13-5W2 (3-4)	44-10-W3 (0-1)	HA-10-W3 (1-2)	HA-10-W3 (2-3)	HA-10-WH (0-1)	11.4-10-W4 (1-2)	HA-10-W4 (2-3)	HA-10-5W] (0-1)	HA-10.5WI (1-2)	4-10-SWI (2-3)		be Please Hold until authorized	

YORK MAAVING LANDS AND THE RESIDENCE IN COLUMN AND THE RESIDENCE AND THE RESIDENCE IN COLUMN AND THE RESIDENCE IN

YORK ANALYTIDAL LABDRATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371

Fax (203) 357-0166

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Page 6 of 13

York Project No. 15F0769

YOUR Information	Report To:	.; <u>o</u>	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type
Company: Callyon Chritecin's Address: SSS long Whorf Dr.	Company:	Company:	7	140104002	RUSH - Same Day RUSH - Next Day	Summary Report Summary W/ QA Summary CT BCP Deschares
Phone No. 205-562-577) Contact Person: Tisk's Holl	Phone No.	Phone No.	State	Purchase Order No.	RUSH - Two Day RUSH - Three Day RUSH - Four Day	CTRCP DQA/DUB Pkg NY ASP A Package NY ASP B Package
(3)	E-Mail Address:	E-Mail Address:		Samples from: CT XNY NJ	Standard(5-7 Days)	NJDEP Red. Deliv. Electronic Data Deliverables (EDD)
Print Clearly and Logibly All Information must be complete	4ll Information m	ust he complete	Volatiles	. Pest/PCB/Herb	rg. Full Lists Misc.	Simple Excel
Samples will NOT be loosed in and the turn-around time	red in and the tu	rn-around time	*8260 full TICs 8270 or 625 624 Site Spec. STARS list	8082PCB RCRA8 8081Pest PP13 list	D Pri.Poll. Corrosivity	NYSDEC EQuIS
clock will not begin until any questions by York are resolved.	ty questions by Yo	rk are resolved.	STARS list Nassau Co.	8151Herb TAL	TAL MetCN	EZ-EDD (EQuIS)
/ W!!	,	Matrix Codes	Sutfolk Co. Ketones	IN CT RCP CT15 list App. IX TAGM list		NJDEP SRP HazSite EDD GIS/KEY (std)
and all		S - soil Other - specify(oil, etc.)	TCL list Oxygenates TAGM list TAGM list TCLP list CTRCP lis	TAGM list Site Spec. NJDEP list Air TO14A CT RCP list SPI-Por TCIP Total Air TO15	A Part 360-Routine Heterotrophs Part 360-Breetine TOX	Other pole
Samples Collected/Aúthorized By (Signature)	d By (Signature)		CT RCP list 524.2 TCL list Arom. only 502.2 NJDEP list	TCLP Pest Dissolved st TCLP Herb SPIPOTICIP	Part 360-equated No Docins Figures Part 360-ecumbed	Excel Spreadsheet
Name (printed)		DW - drinking water Air-A - ambient air Air-SV - soil vapor	NJDEP list SPLP or TCLP	Chlordane Indiv. Menk 608 Pest CIST Below		CTOEEP RSRs
Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses	m the Me	ove and Enter Below	Container Description(s)
HA-10-SWI (3-4)	h1:0] S1-81-9	5	Assenie	4 Hour		1- Yoz Jar
1A-10-5WZ (0-1)	1 6:16		(
4.4-10-5WZ (1-2)	10:17			of HOUD		
2-10-5W2 (2-3)	81:01			* Hocp		
1A-10-SWZ (3-4)	6:19			Me Held		
HA-10-SW3 (0-1)	[0:2]					
14-10-5W3 (1-2)	[0:22			# HOLD		
4A-10-5W3 (2-3)	(0:23			a Hou		
14-S-E4 (0-1)	10:11					
(2-1) H3-5-1	20:11	→	D	GH CA		→
omments		Preservation Check those Applicable	4°C Frozen H	HCI MeOH HNO3	HSO, NaOH	Tomporation
plear Hold until authorized h	thenzed hy	Special Instructions	Legal	54:61 51:42	51/5	4
(gurden)		Field Filtered Lab to Filter	samples Relinquished By	Date/Ime	2/2	Date/Time 7.9 °C
			Samples Relinquished By	Date/Time	Samples Received in LAB by Da	Date/Time

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York Project No.

YOUR Information	Report To:		Invoice To:	YOUR Project ID	Turn-Around Time	Report Type	
Company: Canyon Engineering	Company:	Company:	7	700601041	RUSH - Same Day RUSH - Next Day	Summary Report Summary W/ QA Summary	
NEW HAWA CT Phone No. 203-562-5771	Phone No.	Phone No.	CAN	Purchase Order No.	RUSH - Two Day RUSH - Three Day	CTRCP DQA/DUE Pkg	
Contact Person: Jushin Hull	Attention:	Attention:			RUSH - Four Day	NY ASP B Package	
E-Mail Address: JHull @ (myon	E-Mail Address:	E-Mail Ac	Address:	Samples from: CT ANY NJ		Electronic Data Deliverables (EDD)	
Print Clearly and Legibly. All Information must be complete	411 Information m	ust he complete	Volatiles	. Pest/PCB/Hert Metals	g. Full Lists	Simple Excel	
Samples will NOT be logged in and the turn-around time	ed in and the tu	irn-around time	8260 full TICs 624 Site Spec.	8270 or 625 8082PCB RCRA8 TPH GRO STARS list 8081Pest PP13 list TPH DRO	Pri.Poll. Corrosivity TCL Oranis Reactivity	NYSDEC EQUIS EQUIS (std)	
clock will not begin until any questions by York are resolved.	ry questions by K	ork are resolved.	STARS list Nassau Co.	8151Herb TAL	TAL Metch	EZ-EDD (EQuIS)	
1100	00	Matrix Codes	MTBE Ketones	CT RCP CT15 list App. IX TAGM list		NJDEP SRP HazSite EDD GIS/KEY (std)	
JA A		S - soil Other - specify(oil. etc.)	TCL list Oxygenates TAGM list TAGM list TCL P list CT RCP list	TAGM list Site Spec. NJDEP list Air TO14A	A Part 360-Routine Heterotrophs	Other pdf	
Samples Collected/Authorized By (Signature)	By (Signature)	WW - wastewater	t 524.2	TCLP Pest Dissolved	Part 360-iventor	York Regulatory Comparison Excel Spreadsheet	
Took Hell			P list	X Chlordane Indix.Metak Air TICs	Part 500-Expenses Aquatic Lox. NYCOEPsewer TOC	2	
Name (printed)	(Air-A - ambient air Air-SV - soil vapor	SPLPGTCLP	608 Pest CIST Below 608 PCB	NYSDECsever Asbestos TAGM Silica	CTDEEP 125Rs	
Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses	Choose Analyses Needed from the Menu Above and Enter Below	ove and Enter Below	Container Description(s)	
HA-S-EY (2-3)	80:11 51-81-9	8	Arsmic	# HOID		1-402 Jan	4
14-5-64 (3-4)	40:11			* Hour		_	6
HA-5-E6 (0-1)	३०:।)						¥
HA-5-E6 (1-2)	11:07			M HOLD			
44-5-E6 (2-3)	11:08			*Horn			20
HA-S-EG (3-4)	11:09			* then			
HA-5-E3 (0-1)	11:1)						
44-5-E3 (1-1)	11:12			4 Hero			
1.A-S-E3 (2-3)	[1:13			STOPP &			
1-5-E3 (3-4)	₩ 11:114	→	>	_		→	
e a pmments		Preservation Check those Applicable	4°C Frozen H	HCI MeOH HNO3	H SO, NaOH	T	
blass hold mit authorized	insted La	Special Instructions	as lall	6-19-15 12:45	10 6/12y	St. 21 SI	-
		Field Filtered	Samples Relinquished By	y Date/Time Samples	Received By [19]	15 / 350 4.9 °C	
D			Samples Relinquished By	Date/Time	Samples/Received in LAB by Da	Date/Time	

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York Project No.

YOUR Information	Report To:		Invoice To: YOUR Project ID	7 Turn-Around Time	Report Type
Cane	Company:		200601071	RUSH - Same Day RUSH - Next Day	Summary Report Summary w/ QA Summary CT R CP Package
Address: SSS COM NORTH IN Phone No. 208 - Ch2 - C77	Phone No.	Phone No.	Purchase Order No.	O. RUSH - Two Day RUSH - Three Day	CTRCP DQA/DUE Pkg NY ASP A Package
Control Berger X. 1. L.	Affention:	Attention:		RUSH - Four Day	NY ASP B Package NJDEP Red. Deliv.
	F-Mail Address:	E-Mail Address:	Samples from: CT NY	NJ Standard(5-7 Days) 🔯	Electronic Data Deliverables (EDD)
E-Mail Address. J. Ma I (All Information mi	est ho complete	Volatiles Semi-Vols, Pest/PCB/Herb Metals	Full Lists	Simple Excel
First Clearly and Legioty. An information must be compress.	and in and the tur	n-around time	*2260 full TICs 82.70 α 625 8082PCB RCRA8 624 Site Spec. STARS list 8081Pest PP13 list	TPH GRO TCL Ognis Reactivity	EQuIS (std)
clock will not begin, until any auestions by York are resolved	ny auestions by You	rk are resolved.	STARS list Nassau Co. BN Only 8151Herb TAL	CT ETPH TAL MesCN Ignitability NV 210.13 Ev.11 TCT P Flash Point	EZ-EDD (EQuIS)
		Matrix Codes	Ketones PAH list App. IX TAGM list	Full App. IX	GIS/KEY (std)
(All All		Other - specify(oil, etc.)	TAGM list TCLP list CT RCP list SPIPOrTCIP Total	Part 360-Baseline	Vork Regulatory Comparison
Samples Collected/Authorized By (Signature)	d By (Signature)	WW - wastewater	CTRCP list 524.2 TCL list TCLP Pest Dissolved	Air STARS Part 360-Expressed BTU/Ib. Air VPH Part 360-Expressed Aquatic Tox.	Excel Spreadsheet Commars to the following Rees. (filese fill in):
Name (printed)	G	DW - drinking water Air-A - ambient air	Halog.only NJDEP list App. IX Chlordane India/Meak App.IX list SPIPorTCLP TCLP BNA 608 Pest		CTDEEP RSIZS
Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	nu Above and Enter Below	Container Description(s)
		,	Y		1-4
HA-5-ES (0-1)	6-18-15 11-16	5	Arent		102700
44-5ES (1-2)	T(:1)		() O70+)		
44-5-ES (2-3)	81:11		*Hocp		
114-5-ES (3-4)	11:19		d House		
(1-0) HV-5-MI	11:21				
	22:11		# Hoco		
	11:23		Hou)		
	11:24		G-G-H-X		
-14-5-NG (6-1)	77:11				
14-5-N6	V 11:27	\rightarrow	THAT Y		4
1		Preservation Check those Applicable	4°C Frozen HCl MeOH ZnAc Ascorbic Acid	HNO, H ₂ SO, NaOH Other	/ Temperature
2 of	theres)	Special	C-19-55 12:45	119 119	1512/45 on Receipt
1 mg 617 1010 0011 0		Field Filtered	Samples Relinquished By Date/Time Samples	Samples Received By	75 1357 4.9 °C
		Tap to Times	Samples Relinquished By Date/Time S	Samples Received in LAB by [Date/Time

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Temperature Electronic Data Deliverables (EDD) Excel Spreadsheet Compare to the following Regs. (please fill in) CTDEEP RSILS York Regulatory Comparison Summary w/ QA Summary NJDEP SRP HazSite EDD Report Type CTRCP DQA/DUE Pkg Description(s) Container NY ASP A Package NY ASP B Package NJDEP Red. Deliv. CT RCP Package NYSDEC EQuIS EZ-EDD (EQuIS) GIS/KEY (std)
Other pd 1-402 Cer Simple Excel EQuIS (std) Choose Analyses Needed from the Menu Above and Enter Below **Turn-Around Time** Standard(5-7 Days) Heterotrophs Aquatic Tox. Flash Point Sieve Anal. RUSH - Three Day RUSH - Same Day RUSH - Next Day RUSH - Four Day RUSH - Two Day Part 360-Breeing TOX Part 360-Expended NYCOEP Server Misc. Org. Full Lists Part 360-Routine Part 360-Expressed NYSDECsent Full App. IX TAL MetCN Full TCLP NY 310-13 TPH DRO Air TO14A **IPH 1664** Air STARS TPH GRO CT ETPH Air TO15 AirTICs Purchase Order No. Samples from: CT NY NJ YOUR Project ID SPIPOTICIP Metals NJDEP list TAGM list Dissolved 140102002 CT15 list PP13 list RCRA8 Total Ascorbic Acid Semi-Vols. Pest/PCB/Herb SPLPorTCLP TCLP Pest TCLP Herb Chlordane 8151Herb 8081Pest Site Spec. SPIP OF TCLP BNA 608 Pest CT RCP App. IX 4 HCC 070H & * HOLD (5) 全 * Chyle & を下るこ 070H. CT RCP list STARS list Acids Only TAGM list NJDEP list HOCO App. IX PAH list TCL list Suffolk Co. Nassau Co. NJDEP list Oxygenates TCLP list Ketones Invoice To: CT RCP list 524.2 Volatiles ARANIC Halog.only App.IX list Arom. only STARS list TAGM list Print Clearly and Legibly. All Information must be complete. 8260 tull TCL list E-Mail Address: Samples will NOT be logged in and the turn-around time 624 Attention: DW - drinking water Address: clock will not begin until any questions by York are resolved. Other - specify(oil, etc.) Sample Matrix Check those Applicable GW - groundwater MatrixCodes WW - wastewater Air-SV - soil vapor Preservation Report To: Date/Time Sampled 11:28 11:34 11:33 11:32 11:38 11.39 11:37 Samples Collected/Authorized By (Signature) E-Mail Address: Attention: 51.81-9 Phone No. Name (printed) Address: 555 Coury Whort Dr. E-Mail Address: Thall a Conym 12th 141 YOUR Information Company: Lawan Enzivering Phone No. 203 - 562-577 Sample Identification Contact Person: 15 fr | Hall 3 1-2 44-5-NG (23) 3 HA-5-N6 (3-4) 0-0 New Haven HA-5-N3 -S-NS TA-S-NS TA-S-NY HA-5-N3 HA-S-N3 14-5-NS mments 14-5-AT Page 43 of 44

05%

Samples Réceived in LAB by

Date/Time

Samples Relinquished By

Samples Page

54.5 12.45

Date/Time

Samples Relinquished By

Field Filtered

Lab to Filter

Instructions

louse hold until authorized by

5 ō Page 9

York Project No.

YORK MALTITUDE AND ALTERNATION OF THE PARTY OF THE PARTY

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
5TRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166 This (

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

Page 10 of 13

154076

York Project No.

Electronic Data Deliverables (EDD) Excel Spreadsheet Compare to the following Regs. (please fill in) CTOFER RSIRS York Regulatory Comparison NIDEP SRP HazSite EDD Report Type Summary w/ QA Summary CTRCP DQA/DUE Pkg Description(s) Container NY ASP A Package NY ASP B Package NJDEP Red. Deliv. CT RCP Package NYSDEC EQuIS EZ-EDD (EQuIS) GIS/KEY (std) 1-402 Jar Simple Excel EQuIS (std) **Turn-Around Time** Choose Analyses Needed from the Menu Above and Enter Below Standard(5-7 Days) Heterotrophs Aquatic Tox Flash Point Sieve Anal. Reactivity RUSH - Same Day RUSH - Three Day Asbestos BTU/Ib. Misc. Org. Full Lists Misc. RUSH - Next Day RUSH - Two Day Part 360-Eyensel Part 360-Baseline Part 360-Routine TCL Organics Full App. IX NYSDECsong TAL MetCN Full TCLP Air TO14A NY 310-13 TPH DRO Air STARS TPH GRO TPH 1664 CT ETPH Air TO15 Air VPH Methane Air TICs Purchase Order No. YOUR Project ID SPLPGTCLP 200601041 FAGM list NJDEP list Semi-Vols. Pest/PCB/Herb Metals Samples from: CT NVY Dissolved CT15 list PP13 list SPIPOTTCIP ICLP Herb TCLP Pest Chlordane 8151Herb Site Spec. 8081Pest CTRCP App. IX 608 Pest SPLP OCTOLP 608 PCI * 子5·20 & Hour A Horo CT RCP list SPLP or TCLP BNA NUDEP list STARS list Acids Only FAGM list PAH list **FCL list** App. IX Suffolk Co. NJDEP list Nassau Co. Oxygenates TCLP list Site Spec. Ketones Invoice To: 524.2 502.2 Volatiles Arsento CT RCP list Arom. only Halog.only App.IX list TAGM list STARS list Print Clearly and Legibly. All Information must be complete. '3260 full BTEX TCL list E-Mail Address: Samples will NOT be logged in and the turn-around time 624 clock will not begin until any questions by York are resolved. Phone No. Attention: Other - specify(oil, etc.) DW - drinking water Address: Sample Matrix GW - groundwater Adathix Codes WW - wastewater Air-A - ambient air Air-SV - soil vapor Report To: Date/Time Sampled 11:44 11:43 11:45 3h;11 14:1 Samples Collected/Authorized By (Signature) E-Mail Address: Phone No. Attention: 51-81-9 Name (printed) E-Mail Address: Thull @ (a1441) Company: Calmen Envireeres YOUR Information Address: CSS lawy Where Justin Hal Sample Identification Contact Person: Oushin Hall Phone No. 203 - 562-5771 (3-4 (02 (2-3) 12 -0 New House 174-12-44 14-21-NEZ HA-21-NE) HA-21-NE HA-21-NE)

emperature

15 1350

Date/Time

Samples/Received in LAB by

Date/Time

Samples Relinquished By

Samples

G19-15 12:45

Ascorbic Acid

Check those Applicable

Preservation

11:52

1-2

omments

Page 44 of 44

1-0

A-10-NE)

1:5

11:49

37,3

HA-21-NEZ HA-21-NEZ

8/1:11

Lh: (1)

1-5

HA-21-NEZ

30 PH *

9797 V

A2記

*HOLD

Date/Time

Samples Relinquished By

Field Filtered

Lab to Filter

Instructions

please hold until authorized by



Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive New Haven CT, 06511

Attention: Justin Hall

Report Date: 07/01/2015

Client Project ID: 140109002

York Project (SDG) No.: 15F0780

Revision No. 1.0

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Page 1 of 17

Report Date: 07/01/2015 Client Project ID: 140109002 York Project (SDG) No.: 15F0780

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive New Haven CT, 06511 Attention: Justin Hall

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 June 19, 2015 and listed below. The project was identified as your project: **140109002**.

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.

York Sample ID	Client Sample ID	<u>Matrix</u>	Date Collected	Date Received
15F0780-01	HA-10-NE1 (1-2)	Soil	06/18/2015	06/19/2015
15F0780-04	HA-10-N2 (0-1)	Soil	06/18/2015	06/19/2015
15F0780-05	HA-10-N2 (1-2)	Soil	06/18/2015	06/19/2015
15F0780-08	HA-13-SE1 (0-1)	Soil	06/18/2015	06/19/2015
15F0780-12	HA-13-E4 (0-1)	Soil	06/18/2015	06/19/2015
15F0780-16	HA-13-E3 (0-1)	Soil	06/18/2015	06/19/2015
15F0780-24	DUP-6.18.15	Soil	06/18/2015	06/19/2015

General Notes for York Project (SDG) No.: 15F0780

- 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: 07/01/2015

Benjamin Gulizia Laboratory Director





<u>Client Sample ID:</u> HA-10-NE1 (1-2) <u>York Sample ID:</u> 15F0780-01

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0780
 140109002
 Soil
 June 18, 2015 11:52 am
 06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLCAS No. Parameter Result Flag Units Dilution Reference Method Analyzed Prepared Analyst 06/30/2015 11:12 7440-38-2 4.32 mg/kg dry 1.16 EPA 6010C 06/30/2015 18:05 ALD Arsenic

<u>Total Solids</u> <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RLDilution Reference Method Parameter Units Prepared Analyzed Analyst solids % 0.100 SM 2540G 06/27/2015 11:08 06/29/2015 15:20 % Solids 85.9

Sample Information

<u>Client Sample ID:</u> HA-10-N2 (0-1) <u>York Sample ID:</u> 15F0780-04

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0780
 140109002
 Soil
 June 18, 2015 11:56 am
 06/19/2015

Arsenic by EPA 6010 Log-in Notes: Sample Notes:

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLDilution CAS No. Parameter Result Flag Units Reference Method Analyzed Prepared Analyst 06/25/2015 11:42 06/25/2015 18:57 mg/kg dry EPA 6010C 7440-38-2 Arsenic 41.1 1.15 ALD

Total Solids <u>Log-in Notes:</u> <u>Sample Notes:</u>

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RL CAS No. Parameter Result Units Dilution Reference Method Prepared Analyzed Analyst solids % 0.100 SM 2540G 06/22/2015 10:48 06/22/2015 15:57 % Solids 87.0

Sample Information

<u>Client Sample ID:</u> HA-10-N2 (1-2) <u>York Sample ID:</u> 15F0780-05

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0780
 140109002
 Soil
 June 18, 2015 11:57 am
 06/19/2015

Arsenic by EPA 6010 <u>Log-in Notes:</u> <u>Sample Notes:</u>

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Page 4 of 17



HA-10-N2 (1-2) **Client Sample ID:** York Sample ID: 15F0780-05

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received

15F0780 140109002 Soil June 18, 2015 11:57 am 06/19/2015

Data/Time

Data/Time

Sample Prepared by Method: EPA 3050B

CAS N	0.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Prepared	Analyzed	Analyst
7440-38-2	Arsenic		9.07		mg/kg dry	1.15	1	EPA 6010C	06/30/2015 11:12	06/30/2015 18:35	ALD

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time RLDilution Units Reference Method CAS No. Parameter Result Flag Prepared Analyzed Analyst % solids % Solids 87.1 0.100 SM 2540G 06/27/2015 11:08 06/29/2015 15:20 SCA

Sample Information

Client Sample ID: HA-13-SE1 (0-1) York Sample ID: 15F0780-08

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 06/19/2015 15F0780 140109002 Soil June 18, 2015 12:01 pm

Log-in Notes: Arsenic by EPA 6010 **Sample Notes:**

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time Result Units RLCAS No. Dilution Reference Method Analyzed Parameter Flag Analyst Prepared 7440-38-2 EPA 6010C 06/25/2015 11:42 06/25/2015 19:02 3.44 mg/kg dry 1 13 ALD Arsenic

Log-in Notes: Sample Notes: Total Solids

Sample Prepared by Method: % Solids Prep

Date/Time Date/Time Parameter Result Units RL Dilution Reference Method Analyzed Analyst Prepared % 0.100 SM 2540G 06/22/2015 10:48 06/22/2015 15:57 solids % Solids 88.4

Sample Information

HA-13-E4 (0-1) York Sample ID: 15F0780-12 **Client Sample ID:**

York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received 15F0780 140109002 Soil June 18, 2015 12:06 pm 06/19/2015

Log-in Notes: Sample Notes: Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

Date/Time Date/Time RLDilution Units Reference Method CAS No Result Flag Analyzed Analyst Parameter Prepared 06/25/2015 19:07 1 14 EPA 6010C 06/25/2015 11:42 7440-38-2 6.30 mg/kg dry ALD Arsenic

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Page 5 of 17



Client Sample ID: HA-13-E4 (0-1) **York Sample ID:**

15F0780-12

York Project (SDG) No. 15F0780

Client Project ID

Matrix

Collection Date/Time

Date Received

140109002

Soil

June 18, 2015 12:06 pm

06/19/2015

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No	. Paramet	er Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	87.4		%	0.100	1	SM 2540G	06/22/2015 10:48	06/22/2015 15:57	KK

Sample Information

Client Sample ID: HA-13-E3 (0-1) **York Sample ID:**

15F0780-16

York Project (SDG) No. 15F0780

Client Project ID 140109002

Flag

Result

5.01

Matrix Soil

Collection Date/Time June 18, 2015 12:11 pm Date Received 06/19/2015

Arsenic by EPA 6010

Sample Prepared by Method: EPA 3050B

Log-in Notes:

RL

1.07

Sample Notes:

Date/Time

CACN-

CAST	10.	rarameter
7440-38-2	Arsenic	

mg/kg dry

Units

Dilution Reference Method EPA 6010C

Analyzed Prepared 06/25/2015 11:42

Date/Time

Analyst 06/25/2015 19:12 ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS	No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids		93.1		%	0.100	1	SM 2540G	06/22/2015 10:48	06/22/2015 15:57	KK

Sample Information

Client Sample ID: DUP-6.18.15

15F0780-24

York Project (SDG) No. 15F0780

Client Project ID 140109002

Matrix Soil

Collection Date/Time June 18, 2015 3:00 pm

York Sample ID:

Date Received 06/19/2015

Arsenic by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2 Ars	senic	28.6		mg/kg dry	1.14	1	EPA 6010C	06/25/2015 11:42	06/25/2015 19:34	ALD

Log-in Notes: Sample Notes: Total Solids

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Page 6 of 17



Client Sample ID: DUP-6.18.15 York Sample ID: 15F0780-24

 York Project (SDG) No.
 Client Project ID
 Matrix
 Collection Date/Time
 Date Received

 15F0780
 140109002
 Soil
 June 18, 2015 3:00 pm
 06/19/2015

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst	
solids %	Solids	87.8		%	0.100	1	SM 2540G	06/22/2015 10:48	06/22/2015 15:57	KK	

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Page 7 of 17



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: York Analytical Laboratories, Inc. Client: Langan Engineering & Environmental Serv

Project Location: 140109002 Lab Project No.: 15F0780

Laboratory Sample ID(s): 15F0780-01 - 15F0780-24 Sampling Date(s): 06/18/2015 - 06/18/2015

RCP Methods Used: See Narrative and Method Reference Section of this Technical Report

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

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

This form may not be altered and all questions must be answered.

I, the	unders	signe	d, attest	under th	ne pai	ns an	d penalties	of p	erjury	that,	to t	he best	of my	knowled	lge	and	belief	and
based	upon	my	personal	inquiry	of	those	responsible	for	provid	ding	the	informat	ion c	ontained	in	this	analy	tical
report	such i	nform	nation is a	ccurate	and co	mplet	e.											

Authorized Signature:

Be I I

Position: Laboratory Director

Printed Name: Benjamin Gulizia Date: 07/01/2015

YORK

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Case Narrative

Client:Langan Engineering & Environmental Services (CT)
Client Project ID: 140109002
Prepared for: Justin Hall

Introduction

This Case Narrative applies to the following samples submitted to our laboratory on 06/19/2015 13:50:

Sample Name	<u>Matrix</u>
DUP-6.18.15	Soil
HA-10-N2 (0-1)	Soil
HA-10-N2 (1-2)	Soil
HA-10-N2 (2-3)	Soil
HA-10-N2 (3-4)	Soil
HA-10-NE1 (1-2)	Soil
HA-10-NE1 (2-3)	Soil
HA-10-NE1 (3-4)	Soil
HA-13-E3 (0-1)	Soil
HA-13-E3 (1-2)	Soil
HA-13-E3 (2-3)	Soil
HA-13-E3 (3-4)	Soil
HA-13-E4 (0-1)	Soil
HA-13-E4 (1-2)	Soil
HA-13-E4 (2-3)	Soil
HA-13-E4 (3-4)	Soil
HA-13-E5 (0-1)	Soil
HA-13-E5 (1-2)	Soil
HA-13-E5 (2-3)	Soil
HA-13-E5 (3-4)	Soil
HA-13-SE1 (0-1)	Soil
HA-13-SE1 (1-2)	Soil
HA-13-SE1 (2-3)	Soil
HA-13-SE1 (3-4)	Soil

The 24 sample(s) were received intact in a custody-sealed cooler unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (2-6oC) and documented as:

Cooler

Default Cooler

<u>Cooler</u> <u>Temp C°</u> Default Cooler 4.9

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AX (203) 357-0100



Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

Preparation and analysis were conducted according to the SW-846 methods, as detailed in the sample information table, and the requirements of the State of Connecticut Reasonable Confidence Protocols (RCP).

For initial calibrations (ICAL), initial calibration verifications (ICV) and continuing calibration verifications (CCV) for organics determined by GC/MS methods (TO15 volatiles, 8260 volatiles and 8270 semi-volatiles) all method criteria and laboratory SOP criteria were met unless otherwise noted below. Any compounds in the ICAL, ICV or CCV exceeding RCP specified limits are available upon request. This data is not used for Data Quality Assessment or Data Usability Evaluation (assignment of compound bias) which are determined from other lines of evidence. Therefore the data is not detailed in this narrative.

These terms may be used interchangeably. Both are measures of the accuracy of an analysis by measurement of a known material from a source other than that used for calibration. By definition, a Standard Reference Material (SRM) is a material containing known levels of analytes used to evaluate the performance of the analytical system with respect to a defined set of acceptance criteria. It is processed exactly as a sample. An LCS (Laboratory Control Sample) is second-source standard containing known levels of analyte(s), treated exactly as a sample, run with each analytical batch. Both are metrics used to establish accuracy of the preparation/analysis methods.

Metals – Total (Arsenic)

No problems were encountered during analysis of the samples, other than detailed below.

Method Blank

No target analyte was detected at or above the RL in the method blanks.

Batch QC

Two Standard Reference Materials and MS/Dup analysis on sample "HA-10-NE1 (1-2)" were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Dilutions

No sample dilutions were required.

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371

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Page 10 of 17



Analytical Batch Summary

Batch ID: BF51052	Preparation Method:	% Solids Prep	Prepared By:	KK
YORK Sample ID	Client Sample ID	Preparation Date		
15F0780-04	HA-10-N2 (0-1)	06/22/15		
15F0780-08	HA-13-SE1 (0-1)	06/22/15		
15F0780-12	HA-13-E4 (0-1)	06/22/15		
15F0780-16	HA-13-E3 (0-1)	06/22/15		
15F0780-24	DUP-6.18.15	06/22/15		
Batch ID: BF51275	Preparation Method:	EPA 3050B	Prepared By:	ALD
YORK Sample ID	Client Sample ID	Preparation Date		
15F0780-04	HA-10-N2 (0-1)	06/25/15		
15F0780-08	HA-13-SE1 (0-1)	06/25/15		
15F0780-12	HA-13-E4 (0-1)	06/25/15		
15F0780-16	HA-13-E3 (0-1)	06/25/15		
15F0780-24	DUP-6.18.15	06/25/15		
BF51275-BLK1	Blank	06/25/15		
BF51275-SRM1	Reference	06/25/15		
Batch ID: BF51395	Preparation Method:	% Solids Prep	Prepared By:	KK
YORK Sample ID	Client Sample ID	Preparation Date		
15F0780-01	HA-10-NE1 (1-2)	06/27/15		
15F0780-05	HA-10-N2 (1-2)	06/27/15		
Batch ID: BF51517	Preparation Method:	EPA 3050B	Prepared By:	ALD
YORK Sample ID	Client Sample ID	Preparation Date		
15F0780-01	HA-10-NE1 (1-2)	06/30/15		
15F0780-05	HA-10-N2 (1-2)	06/30/15		
BF51517-BLK1	Blank	06/30/15		
BF51517-DUP1	Duplicate	06/30/15		
BF51517-MS1	Matrix Spike	06/30/15		
BF51517-SRM1	Reference	06/30/15		

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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	Flag
Batch BF51275 - EPA 3050B											
Blank (BF51275-BLK1)							Prep	ared & Analy	yzed: 06/25/	2015	
Arsenic	ND	1.00	mg/kg wet								
Reference (BF51275-SRM1)							Prep	ared & Analy	yzed: 06/25/	2015	
Arsenic	111	1.00	mg/kg wet	122		91.2	70-145.1				
Batch BF51517 - EPA 3050B											
Blank (BF51517-BLK1)							Prep	ared & Analy	yzed: 06/30/	2015	
Arsenic	ND	1.00	mg/kg wet								
Duplicate (BF51517-DUP1)	*Source sample: 15	5F0780-01 (H	A-10-NE1 (1-2))			Prep	ared & Analy	yzed: 06/30/	2015	
Arsenic	4.90	1.16	mg/kg dry		4.32				12.6	35	
Matrix Spike (BF51517-MS1)	*Source sample: 15	5F0780-01 (H	A-10-NE1 (1-2))			Prep	ared & Analy	yzed: 06/30/2	2015	
Arsenic	232	1.16	mg/kg dry	233	4.32	97.9	75-125				
Reference (BF51517-SRM1)							Prep	ared & Analy	yzed: 06/30/2	2015	
Arsenic	115	1.00	mg/kg wet	122	·	94.0	70-145.1		·		

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Page 12 of 17



Notes and Definitions

M-CCVO CCV Out. Samples bracketed by acceptable CCVs.

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

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

LOD

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.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Revision Description: Client took some samples off hold

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Page 10 of 15
1SF 0780

York Project No.

YOUR Information	Report To:	170:	Invoice To:	YOUR Project ID	Turn-Around Time	e Report Type	0
Company: Calyer Engilelist	Company:	Company:	ny:	2006010hl	RUSH - Same Day	Summary Report Summary w/ QA Summary	, ,
New Howen CT	WY C	Address:	All All	Purchase Order No.	RUSH - Two Day	CT RCP Package X2	2 80
Phone No. 203 56 25 11	Phone No.	Phone No.	No		RUSH - Three Day	NY ASP A Package	
Contact Person: Jushin Hall	Attention:	Attention:	inc		RUSH - Four Day	NY ASP B Package	
E-Mail Address: Thull @ (aight	E-Mail Address:	E-Mail	E-Mail Address:	Samples from: CT VNY NJ	Standard(5-7 Days)	Electronic Data Deliverables (EDD)	les (EDD)
Print Clearly and Legibly. All Information must be complete	All Information n	nust he complete	Volatiles	. Pest/PCB/Herb Metals	Misc. Org. Full Lists Misc.	Simple Excel	1
Samples will NOT be logged in and the turn-ground time	ged in and the t	urn-around tim	8260 full TICs 8270 or 625	8082PCB RCRA8	Pri.Poll.	NYSDEC EQuIS	
clock will not hegin until any anestions by Vorte and medical	Inv anostions hy	ma mano ma dao	STARS list Nassau Co.	=	NO LCL OPPINS INSCINITY PH TAL MOUN Implability	EQUIS (std)	Ī
	ing questions by I	ork are resolved	BTEX Suffolk Co.	y CT RCP CT15 list	Full TCLP	NJDEP SRP HazSite EDD	OC
		S - soil	MTBE Ketones TCL list Oxygenates	st App. IX TAGM list TPH 1664 List Site Spec. NJDEP list Air TO14A	564 Full App. IX Sieve Anal. 14A Part 360-Rouine Heterotrophs	GIS/KEY (std)	
Samples Collected/Authorized By (Signature)	ed By (Signature)	Other - specify(oil, etc.) WW - wastewater	TAGM list TCLP list CTRCP list CTRCP list CTRCP list 524.2 TCL list	P list SPLP or TCLP Total Air TO15	Part 360 Baseline	York Regulatory Comparison	ison
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		GW - groundwater	Arom. only 502.2	st TCLP Herb SPLPorTCLP	3	Excel Spreadsheet Compare to the following Regs. (please fill in)	e fillin):
Name (printed)	(F)	Air-A - ambient air	App.IX list SPLPorTCLP TCLP BNA 8021R Ed	Chlordane Indix Metak 608 Pest (LIST Below)	NYCDEPsewer NYSDECSewer	CTDEEP PSIZS	25
Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses N	Choose Analyses Needed from the Menu Above and Enter Below	bove and Enter Belov	Container	
HA-21-NE) (0-1)	(h:11 SI-81-9)	>	Arsenic			1-402 Jen	
HA-21-NEI (1-2)	74:11		23	48 Hours	The state of the s		
HA-21-NE1 (7-3)	11,43		4	* HOLD			
HA-21-NE1 (3.4)	11:44		¥	* Hoc∩			
14A-21-NEZ (6-1)	74:11						
HA-21-NEZ (1-2)	7 h:(1		4	4-HOLD			
HA 21-NEZ (2-3)	84.11	3.	***	470H			
HA-21-NEZ (3-4)	11:49		S. C.	Orog-lean			
1A-10-NEI (0-1)	11:5:11			0.000			
(2-1) (3N-01- Pa	¥ 11:52	->	7	teco		->	
e nments		Preservation Check those Applicable	4°C Frozen HCI	MeOH According A gid	H,SO, NaOH		
02-12-410 14 10 0 11 12 11 11 11 11 11 11 11 11 11 11 11	inaco by	Special	1/1/1/	Asculate Actual Culter	11/1/1/1	Jemp /// Jemp	emperature
of 17		Instructions Field Filtered	Samples Relinquished By	Date/Time Sawfol	Sawfoles Received By	Jate/Time	on Receipt
}		Lab to Filter			15	5 1350 4.9). %
		104	Samples Relinquished By	Date/Time Sample	Samples/Received in LAB by D	Date/Time	

YORK ANALYTICAL LABORATORIES STRATFORD, CT 06615 120 RESEARCH DR. (203) 325-1371

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York Project No.

															1												
Report Type	Summary Report Summary w/ QA Summary	CTRCP DQA/DUE Pkg	NY ASP B Package	Electronic Data Deliverables (EDD)	Simple Excel	NYSDEC EQuIS	EZ-EDD (EQuIS)	NJDEP SRP HazSite EDD	GIS/KEY (std) Other	York Regulatory Comparison	Excel Spreadsheet Compare to the following Regs. (please fill in):	CTOEEP RSRS	Container Description(s)	1-402 Jan									-2	_/ Temperature	15 12 Son Receipt	ste/Time 4.9 °C	Date/Time
Turn-Around Time	RUSH - Same Day RUSH - Next Day	RUSH - Two Day RUSH - Three Day	RUSH - Four Day	ındard(5-7 Days)	Full Lists Misc.	Pri.Poll. Comosivity	TAL MetCN Ignitability	Full TCLP Flash Point	Full App. IX Sieve Anal. Part 360-Routine Heterotrophs	Part 360-Baseline TOX	Part Soft-exemple Di Ono. Part Soft-exemble Aquatic Tox.	NYODESever TOC NYSDECsever Asbestos	bove and Enter Below											H,SO, NaOH	14 6/19	19	Samples Received in LAB by Da
YOUR Project ID	7,006010/1	Purchase Order No.		Samples from: CT ZNY NJ	Semi-Vols, PestPCB/Hert Metals Misc. Org.	8270 or 625 8082PCB RCRA8 TPH GRO	8151Herb TAL	ly CT RCP CT15 list	12	CT RCP list SPLP or TCLP Total Air TO15	st TCLP Herb SPIPerTCLP	App. IX Chlordane Indix.Meak Air TICs TCLP BNA 608 Pest CASTBelow Methane SOF Decentry P. 608 Dest	led from the Me	How	8 Hours		* Hour	20 Hours	4 Hours		* He w	* Hoco	there	HCI MeOH HNO	Sp:21 S1-101-9	Date/Time	Date/Time
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<u>اة:</u>	Company:		Attention:	E-Mail	net he commitet	ast be complete	re are resolve	In the resouver	S- soil	Other - specify(oil, etc.) WW - wastewater	GW - groundwater	Dw - drinking water Air-A - ambient air Air-SV - soil vapor	Sample Matrix	S	-								>	Preservation Check those Applicable	Special Instructions	Field Filtered Lab to Filter	
Report To:	Company:	Phone No.	Attention:	E-Mail Address:	All Information m	and in and the tu	m anostions hy Va	ny duesmons by ro		(Signature)	(2) (3) (4) (4)		Date/Time Sampled	85:11 51-81-9	45:11 1	11:56	11:57	11:58	11:59	(0:2)	[2:02	12.03	† 12104		(, , , , , , , , , , , , , , , , , , ,		
YOUR Information	Company: (giren Engineering Address: 555 Loin Whert Dr.	Phone No. 203-562-5771	Contact Person: Just Hull	E-Mail Address: Tha 11@ Congn	Print Clearly and Legibly All Information must be complete	Camples will NOT he loaned in and the turn-around time	clock will not horize until any anestions by Vork are resolved	" " " " " " " " " " " " " " " " " " "		Samples (Antected/Authorized By (Signature)		Name (printed)	Sample Identification	HA-10-NE) (2-3)	HA-10-NE1 (3-4)	HA-10-NZ (6-1)	HA-10-N2 (1-2)	HA-10-NZ (2-3)	HA-10-N2 (3-4)	HA-13-SEI (0-1)	LA-13-SE1 (1.2)	HA-13-5E1 (1-3)	7 4-13.5E1 (3-4)	e omments	of please hold with authorized	(end-u)]



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Temperature on Receipt Electronic Data Deliverables (EDD) 2525 Excel Spreadsheet Compare to the following Regs. (please fill in): York Regulatory Comparison NJDEP SRP HazSite EDD Report Type Summary w/ QA Summary CTRCP DOA/DUE PKg Description(s) Container NY ASP A Package NY ASP B Package NJDEP Red. Deliv. CT RCP Package CTOEEP Summary Report NYSDEC EQuIS EZ-EDD (EQuIS) 1-462-Jar GIS/KEY (std) Other 100 F Simple Excel EQuIS (std) **Turn-Around Time** Choose Analyses Needed from the Menu Above and Enter Below Standard(5-7 Days) Part 360-Routine Heterotrophs Aquatic Tox Flash Point Sieve Anal. RUSH - Same Day RUSH - Three Day Misc. Org. Full Lists Misc. Part 360-Exympted BTU/Ib, RUSH - Four Day RUSH - Next Day RUSH - Two Day NYCDEPSever TOC Part 360-Baseline TOX Full App. IX Full TCLP NYSDECsone Pri.Poll. NY 310-13 Air TO14A TPH DRO Air STARS TPH GRO TPH 1664 CT ETPH Air TO15 SPLP or TCLP Air VPH Indiv Metals | Air TICs Purchase Order No. Z YOUR Project ID **NDEP list TAGM** list Metals Dissolved (12.45 Samples from: CT NNY CT15 list PP13 list LIST Below RCRA8 200601991 Total Ascorbic Acid Semi-Vols, Pest/PCB/Herh 8270 or 625 8082PCB 1 SPLPOTULE ICLP Herb TCLP Pest Chlordane 8151Herb Site Spec. 608 Pest 8081Pest CTRCP Арр. ІХ SP P 日本() Chorl * 4 Ford 公里 Ch空 7 CD 子 子 STARS list CT RCP list SPLP or TCLP BNA Acids Only **FAGM list NUDEP list** App. IX TCL list Suffolk Co. NJDEP list Nassau Co. Oxygenates TCLP list Site Spec. Ketones Invoice To: 524.2 502.2 Volatiles CT RCP list といれて Arom. only App.IX list Halog.only TAGM list Print Clearly and Legibly. All Information must be complete. 82500 full TCL list E-Mail Address: Samples will NOT be logged in and the turn-around time 624 Phone No. Attention: clock will not begin until any questions by York are resolved. GW - groundwater DW - drinking water Other - specify(oil, etc.) Sample Matrix Check those Applicable WW - wastewater Air-A - ambient air Air-SV - soil vapor Preservation Instructions Report To: Date/Time Sampled 61:21 90:21 12:08 12:09 12:13 12:07 11:21)1:2] 2:21 Please hold until authorized by Samples-Collected/Authorized By (Signature) E-Mail Address: Attention: Phone No. 6-18-15 Address: 555 Cours Whort Dr. Name (printed) Just Hall Company: Canyer Brythee rive YOUR Information E-Mail Address: Thall @ Comm Sample Identification Contact Person: Justin Hall Phone No. 203-562-5771 3-4 2-1) (2.3 2-3 -0 (-0) 1.2 NEW HEER 14-13-E3 HA-13-E3 -13-ES HA-13-E3 44-13-64 1-14-13-E3 HA-13-EY HA-13-EH HA-13-ES omments 16 of 17 Page

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Temperature on Receipt CTDEEP RSIZS Electronic Data Deliverables (EDD) York Regulatory Comparison NJDEP SRP HazSite EDD Report Type Summary w/ QA Summary CTRCP DQA/DUE Pkg Description(s) NY ASP A Package NY ASP B Package NJDEP Red. Deliv. CT RCP Package NYSDEC EQuIS EZ-EDD (EQuIS) **Excel Spreadsheet** GIS/KEY (std) Simple Excel EQuIS (std) **Turn-Around Time** Choose Analyses Needed from the Menu Above and Enter Below Standard(5-7 Days) Heterotrophs Part 360-Expressor Aquatic Tox. Flash Point Sieve Anal. RUSH - Three Day Reactivity RUSH - Same Day RUSH - Next Day RUSH - Two Day Part 360-Baseline TOX Misc. Org. Full Lists Part 360-Espended TCL Oganics Part 360-Routine NYSDECsoner TAL MetCN Full App. IX Full TCLP NY 310-13 Air TO14A TPH DRO CT ETPH Air STARS TPH 1664 Air TO15 Air VPH Methane **Air TICs** Purchase Order No. YOUR Project ID TCLP Herb SPLP or TCLP TAGM list NJDEP list Semi-Vols, Pest/PCB/Herb Metals TCLP Pest Dissolved Sp: 21 St-6/6 Samples from: CT NNY CT15 list 140109002 PP13 list ISTBelow CT RCP list SPLP or TCLP Total Ascorbic Acid * Hou Chlordane Site Spec. SPLP or TCLP BNA 608 Pest 8081Pest 8151Herb App. IX CT RCP STARS list NJDEP list Acids Only **FAGM list** BN Only App. IX AH list HC amples Relinquished By NJDEP list Suffolk Co. Nassau Co. Oxygenates TCLP list Ketones Invoice To: Arom. only 502.2 CT RCP list 524.2 Volatiles Arsent App.IX list TAGM list STARS list Halog.only 8021B Jist Print Clearly and Legibly. All Information must be complete. 8260 full MTBE E-Mail Address: Samples will NOT be logged in and the turn-around time 624 Phone No. Company: Attention: clock will not begin until any questions by York are resolved. Other - specify(oil, etc.) DW - drinking water Address: Check those Applicable Sample Matrix GW - groundwater WW - wastewater Air-A - ambient air Field Filtered Air-SV - soil vapor Preservation Instructions Soil Report To: Date/Time Sampled 12:18 lease hold until authorized Samples Collected/Authorized By (Signature) E-Mail Address: Attention: Company: Address: Name (printed) Company: Danger Cryvilleny Justin Hall YOUR Information E-Mail Address: Thy | (Q (Gryym Sample Identification Contact Person: Just + Phone No. 263-562-5771 4-6) (22) Cons New HOLER DUP-6,18. HA-13-ES 11A-13-ES mments Page 17 of 17

Date/Time

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