FUSS & O'NEILL

MEMORANDUM

TO: Robert Halpin, Town Manager, Framingham

FROM: David JP Foss, CPG, LSP

CC: Steve Ward, Director – Framingham Health Department
Carol de Groot Bois, LSP – Framingham Health Department
James Duane, Director – Framingham Department of Parks and Recreation
Steve Johnson, Deputy Regional Director BWSC, MassDEP

DATE: September 17, 2014

RE: MCP Environmental Assessment Status Update
Mary Dennison Park, 54 Beaver Street, Framingham
MassDEP RTNs: 3-32015 and 3-32430

Fuss & O'Neill has conducted additional environmental assessment activities at the above-referenced property in accordance with our scope of work and agreement with the Town of Framingham dated July 10, 2014. The purpose of this memorandum is to provide an interim summary that documents the data set compiled to date as a result of historical research and environmental sampling at the Mary Dennison Park site in Framingham, Massachusetts (the site). This work is being conducted subject to the Massachusetts Department of Environmental Protection (MassDEP) regulations at 310 CMR 40.0000, the Massachusetts Contingency Plan (MCP). In accordance with the MCP, a more detailed summary document will be prepared as a deliverable to be submitted to MassDEP via the eDEP system. The data outlined below has been submitted to MassDEP in the past week as requested by personnel in their Northeast Regional Office.

In July 2014, we coordinated with the Town of Framingham Conservation Commission to submit a Request for Determination of Applicability (RDA) regarding proposed field work for this phase of work. The Town provided the appropriate notice to abutters as required by the Conservation Commission regulations. The Conservation Commission concurred that the proposed sampling activities met the criteria for an exemption from the State and Local Wetlands Protection Act (regulations) and issued a "Negative Determination" dated August 6, 2014 allowing the work to proceed.

In July and August 2014, we also had several technical discussions with MassDEP personnel regarding the appropriate scope of work and level of effort for the MCP assessment work at the park. These discussions were used to finalize the scope for shallow soil sampling and proceed with the field work.

Historic files related to the site were reviewed. We queried files and conducted interviews with representatives of the local historical commission, reviewed historic Sanborn fire insurance maps and historic aerial photographs of the site vicinity. PDF copies of the Sanborn maps and representative aerial photographs are attached.

In July 2014, a non-intrusive geophysical survey was conducted to broadly assess subsurface characteristics of the site using Ground Penetrating Radar (GPR) and Electro-Magnetic (EM) survey technologies. The results of that survey are summarized in a report prepared by our subcontractor, TPI Environmental, Inc., dated September 9, 2014. A PDF copy of that report is attached.

A shallow soil sampling program was conducted on August 27, 2014. A total of 69 soil samples were collected from 64 locations (including quality control duplicates). Soil sample locations are depicted on the attached Site Plan (*Figure 1*). The soil samples were collected from the top twelve inches (12") of soil at the site, were field screened with an XRF (X-ray Fluorescence) field screening instrument to evaluate approximate concentrations of metals (i.e. lead) in soil across the site and to guide the selection of samples to be submitted for laboratory analysis. Representative soil samples were submitted for laboratory analysis of metals, petroleum (extractable petroleum hydrocarbon [EPH] fractions and polycyclic aromatic hydrocarbons [PAH] target compounds), and PCBs (polychlorinated biphenyls). The results of the laboratory analytical results were summarized in a data table, which was forwarded to MassDEP. PDF copies of the data table and laboratory report are attached.

To date, over eighty (80) soil samples have been collected, described, field screened, and evaluated to characterize shallow soil across the site. The laboratory analytical results were utilized as the data input for a preliminary Method 3 risk characterization. Using the MassDEP-published Method 3 "short forms", a risk analysis was conducted to evaluate the exposure scenarios at the subject site. Three areas were evaluated based on potential exposures to lead in the top 12 inches of soil (lead was used in this analysis as it is likely to dominate the risk estimates, as allowed in 310 CMR 40.0953(5)):

(1) The eastern, fenced-in playground area adjacent to Beaverdam Brook;
(2) The western, unfenced playground; and
(3) The remainder of the approximately 17-acre Mary Dennison Park, excluding the two playgrounds.

The risk analysis, which assumed exposure to the top twelve inches of soil, resulted in the following conclusions:

- Based on the available data and risk assessment calculations, the levels of lead in the Eastern Playground area met the MCP threshold for an "Imminent Hazard" condition. As such, the analytical data, and results of the preliminary risk characterization were immediately communicated to the Town staff. The MCP dictatesthis be reported to MassDEP in a separate notification than the initial notification made earlier in the year. The Town notified MassDEP on September 10, 2014 of that condition. In accordance with the MCP and after consultation with MassDEP, the Town immediately restricted access to the affected area by installing a 6-foot high fence and posting signage that the eastern playground area was temporarily closed. These actions were taken by the evening of September 10, 2014 and approved by MassDEP as an "Immediate Response Action."

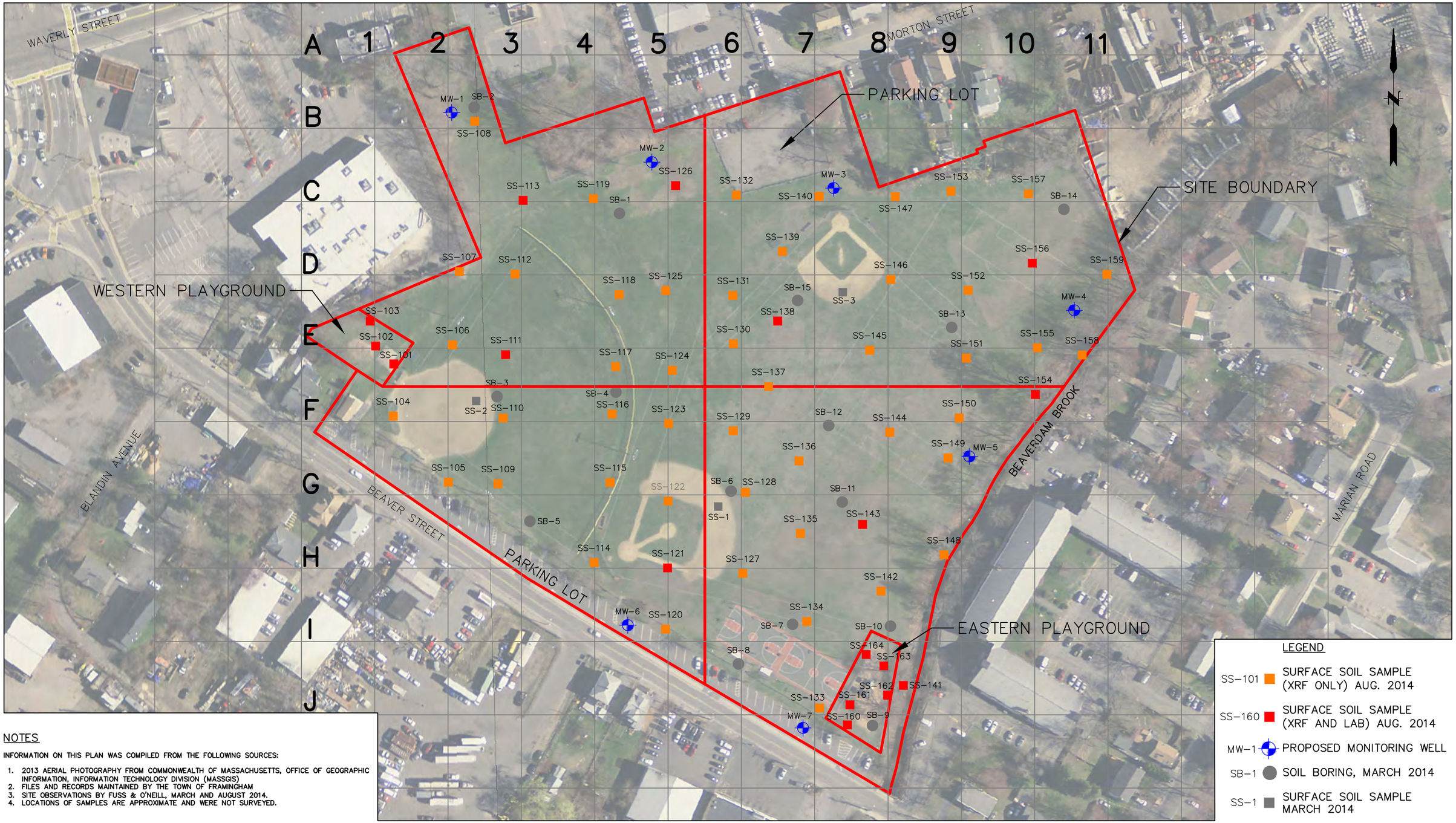
- The concentrations of lead in soil samples collected from the Western Playground and the balance of the park, including the baseball/soccer fields, were significantly less than was documented in the Eastern Playground area. The levels of lead in the rest of the park do not warrant closure based on the currently available data. On-going use of the baseball fields, softball fields, and soccer fields is not restricted, while the Town continues environmental assessment and evaluation.

In addition to the field activities outline above, Fuss & O'Neill has participated in numerous communications with Town and MassDEP regulators. Open lines of communication are being maintained so that stakeholders remain informed about these results as well as the additional field work that is being undertaken to complete the assessment of the site.

Please note, in accordance with the MCP, a full report incorporating this data as well as additional data, analysis, and documents will be provided after the proposed field program is conducted. This interim memorandum is subject to our standard study limitations (attached), as described in our proposal to the Town dated June 12, 2014 and updated scope of work dated August 14, 2014, as incorporated in our agreement with the Town of Framingham.

Attachments: Figure 1 – Site Plan
Table 1 – Summary of Soil Analytical Data
Historic Sanborn Maps
Historic Aerial Photographs
Geophyical Survey Report
Laboratory Analytical Report
Limitations of Work Product

/ap



NOTES

INFORMATION ON THIS PLAN WAS COMPILED FROM THE FOLLOWING SOURCES:

1. 2013 AERIAL PHOTOGRAPHY FROM COMMONWEALTH OF MASSACHUSETTS, OFFICE OF GEOGRAPHIC INFORMATION, INFORMATION TECHNOLOGY DIVISION (MASSGIS)
2. FILES AND RECORDS MAINTAINED BY THE TOWN OF FRAMINGHAM
3. SITE OBSERVATIONS BY FUSS & O'NEILL, MARCH AND AUGUST 2014.
4. LOCATIONS OF SAMPLES ARE APPROXIMATE AND WERE NOT SURVEYED.

LEGEND

- SS-101 — SURFACE SOIL SAMPLE (XRF ONLY) AUG. 2014
- SS-160 — SURFACE SOIL SAMPLE (XRF AND LAB) AUG. 2014
- MW-1 — PROPOSED MONITORING WELL
- SB-1 — SOIL BORING, MARCH 2014
- SS-1 — SURFACE SOIL SAMPLE MARCH 2014

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.				

SCALE:
HORZ.: 1" = 125'
VERT.:
DATUM:
HORZ.:
VERT.:
0 62.5 125
GRAPHIC SCALE

FUSS & O'NEILL
317 IRON HORSE WAY, SUITE 204
PROVIDENCE, RI 02908
401.861.3070
www.fando.com

TOWN OF FRAMINGHAM

SITE PLAN

MARY DENNISON PARK

FRAMINGHAM MASSACHUSETTS

PROJ. No.: 20081389.M20
DATE: AUGUST 2014

FIGURE 1

File Path: J:\DWG\P\20081\1389\M20\Environmental\Plan\20081.389M20-STP02.dwg Layout: 11X17-L_DWG TO PDF Plotted: Mon, September 01, 2014 - 9:40 PM User: dholliibaughbaker
Plotter: DWG TO PDF.PC3 CTB File: FO HALF.STB
MS VIEW:
LAYER STATE:

FUSS & O'NEILL

Table 1
Summary of Soil Analytical Data and Regulatory Standards
Collected March 19 and August 27, 2014

Mary Dennison Park
Framingham, Massachusetts
MassDEP RTN 3-32015

Prepared for the Town of Framingham

September 2014

	Location	SB-2	SB-3	SB-6	SB-8	SB-9	SB-11	SB-12	SB-13	SB-14	SS-101	SS-102	SS-103	SS-111	SS-113	**MassDEP Method 1 S-1 Soil Standards**	
	Sample Number	0319-01	0319-03	0319-05	0319-07	0319-08	0319-12	0319-13	0319-14	0319-15	0827-01	0827-02	0827-03	0827-04	0827-05		
	Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	**S-1/GW-2**	**S-1/GW-3**
	Sample Depth (fbg)	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	0-1		
Total Metals (USEPA Methods 6010/7471)	Units																
Antimony	mg/kg	ND < 3.4	ND < 3.2	ND < 3.1	ND < 4.2	ND < 3.3	ND < 3.7	ND < 3.5	ND < 3.4	ND < 3.1	ND < 2.6	**26**	ND < 2.6	ND < 2.9	4.2	20	20
Arsenic	mg/kg	16	8.9	5.7	**25**	5.4	6.6	ND < 3.5	3.6	3.3	**34**	3.4	3.7	5.7	12	20	20
Barium	mg/kg	150	46	72	56	170	290	47	55	31	42	27	70	38	450	1,000	1,000
Beryllium	mg/kg	0.48	0.47	0.60	0.51	0.56	0.58	0.64	0.56	0.40	1.1	0.30	0.34	0.54	0.43	90	90
Cadmium	mg/kg	1.3	0.48	0.38	1.1	1.0	1.5	0.40	0.39	0.32	1.3	0.84	1.1	1.0	3.5	70	70
Chromium	mg/kg	21	16	21	26	18	25	20	30	14	18	54	19	16	37	100	100
Lead	mg/kg	**240**	24	8.5	**250**	**420**	**1100**	34	68	18	23	100	130	42	**800**	200	200
Mercury	mg/kg	0.25	0.035	ND < 0.032	0.14	0.33	0.20	0.078	0.091	0.074	0.059	0.039	0.17	0.092	0.64	20	20
Nickel	mg/kg	14	11	14	10	14	14	12	14	8.6	26	100	18	9.6	20	600	600
Selenium	mg/kg	ND < 6.7	ND < 6.3	ND < 6.1	ND < 8.3	ND < 6.6	ND < 7.3	ND < 7.0	ND < 6.8	ND < 6.2	ND < 5.3	ND < 5.6	ND < 5.2	ND < 5.8	ND < 5.7	400	400
Silver	mg/kg	ND < 0.67	ND < 0.63	ND < 0.61	ND < 0.83	ND < 0.66	ND < 0.73	ND < 0.70	ND < 0.68	ND < 0.62	ND < 0.53	ND < 0.56	ND < 0.52	ND < 0.58	ND < 0.57	100	100
Thallium	mg/kg	ND < 3.4	ND < 3.2	ND < 3.1	ND < 4.2	ND < 3.3	ND < 3.7	ND < 3.5	ND < 3.4	ND < 3.1	ND < 2.6	ND < 2.8	ND < 2.6	ND < 2.9	ND < 2.8	8	8
Vanadium	mg/kg	27	25	31	27	27	24	22	40	20	33	17	21	23	24	400	400
Zinc	mg/kg	330	41	39	130	310	690	51	83	28	46	47	170	39	850	1,000	1,000
Physiological Available Cyanide (MassDEP Method)	mg/kg	ND < 0.66	ND < 0.61	ND < 0.60	ND < 0.80	ND < 0.64	ND < 0.70	ND < 0.69	ND < 0.66	ND < 0.59	NA	ND < 0.38	NA	ND < 0.41	NA	30	30
EPH with Target PAH (MassDEP Method)																	
C9-C18 Aliphatic Hydrocarbons	mg/kg	ND < 14	ND < 13	ND < 13	ND < 16	ND < 13	ND < 15	ND < 14	ND < 14	ND < 12	ND < 53	ND < 11	ND < 10	ND < 12	12	1,000	1,000
C19-C36 Aliphatic Hydrocarbons	mg/kg	ND < 14	ND < 13	ND < 13	ND < 16	42	23	19	ND < 14	ND < 12	220	ND < 11	17	13	30	3,000	3,000
C11-C22 Aromatic Hydrocarbons	mg/kg	110	14	ND < 13	18	130	50	30	18	18	260	21	30	21	71	1,000	1,000
Acenaphthene	mg/kg	0.34	ND < 0.13	ND < 0.13	ND < 0.16	0.20	ND < 0.15	ND < 0.14	ND < 0.14	ND < 0.12	ND < 0.53	ND < 0.11	0.12	ND < 0.12	0.20	1,000	1,000
Acenaphthylene	mg/kg	ND < 0.14	ND < 0.13	ND < 0.13	ND < 0.16	0.27	ND < 0.15	ND < 0.14	ND < 0.14	ND < 0.12	ND < 0.53	ND < 0.11	ND < 0.10	ND < 0.12	0.17	600	10
Anthracene	mg/kg	0.71	ND < 0.13	ND < 0.13	ND < 0.16	0.55	0.18	ND < 0.14	ND < 0.14	ND < 0.12	ND < 0.53	ND < 0.11	0.17	ND < 0.12	0.42	1,000	1,000
Benzo(a)anthracene	mg/kg	2.1	ND < 0.13	ND < 0.13	ND < 0.16	1.9	0.49	ND < 0.14	ND < 0.14	ND < 0.12	ND < 0.53	0.16	0.54	ND < 0.12	1.4	7	7
Benzo(a)pyrene	mg/kg	**2.4**	0.13	ND < 0.13	0.17	**2.1**	0.48	ND < 0.14	ND < 0.14	ND < 0.12	ND < 0.53	0.18	0.50	ND < 0.12	1.4	2	2
Benzo(b)fluoranthene	mg/kg	3.4	0.20	ND < 0.13	0.28	3.1	0.74	ND < 0.14	ND < 0.14	0.19	ND < 0.53	0.35	0.98	ND < 0.12	2.1	7	7
Benzo(g,h,i)perylene	mg/kg	1.7	ND < 0.13	ND < 0.13	ND < 0.16	1.4	0.29	ND < 0.14	ND < 0.14	0.13	ND < 0.53	0.13	0.39	ND < 0.12	0.89	1,000	1,000
Benzo(k)fluoranthene	mg/kg	1.1	ND < 0.13	ND < 0.13	ND < 0.16	0.99	0.26	ND < 0.14	ND < 0.14	ND < 0.12	ND < 0.53	0.12	0.32	ND < 0.12	0.67	70	70
Chrysene	mg/kg	2.5	0.15	ND < 0.13	0.20	2.4	0.61	ND < 0.14	ND < 0.14	0.16	ND < 0.53	0.22	0.74	ND < 0.12	1.8	70	70
Dibenz(a,h)anthracene	mg/kg	0.54	ND < 0.13	ND < 0.13	ND < 0.16	0.49	ND < 0.15	ND < 0.14	ND < 0.14	ND < 0.12	ND < 0.53	ND < 0.11	0.13	ND < 0.12	0.28	0.7	0.7
Fluoranthene	mg/kg	3.7	0.24	ND < 0.13	0.32	3.7	1.2	0.31	ND < 0.14	0.24	ND < 0.53	0.29	1.2	0.17	3.1	1,000	1,000
Fluorene	mg/kg	0.41	ND < 0.13	ND < 0.13	ND < 0.16	0.31	0.15	ND < 0.14	ND < 0.14	ND < 0.12	ND < 0.53	ND < 0.11	0.12	ND < 0.12	0.22	1,000	1,000
Indeno(1,2,3-cd)pyrene	mg/kg	1.9	ND < 0.13	ND < 0.13	0.17	1.7	0.39	ND < 0.14	ND < 0.14	ND < 0.12	ND < 0.53	0.14	0.45	ND < 0.12	1.1	7	7
2-Methylnaphthalene	mg/kg	ND < 0.14	ND < 0.13	ND < 0.13	ND < 0.16	ND < 0.13	ND < 0.15	ND < 0.14	ND < 0.14	ND < 0.12	ND < 0.53	ND < 0.11	ND < 0.10	ND < 0.12	ND < 0.11	80	300
Naphthalene	mg/kg	ND < 0.14	ND < 0.13	ND < 0.13	ND < 0.16	ND < 0.13	ND < 0.15	ND < 0.14	ND < 0.14	ND < 0.12	ND < 0.53	ND < 0.11	ND < 0.10	ND < 0.12	0.13	20	500
Phenanthrene	mg/kg	2.7	0.17	ND < 0.13	0.18	2.2	0.96	0.34	ND < 0.14	0.17	ND < 0.53	0.17	0.85	0.16	2.0	500	500
Pyrene	mg/kg	4.3	0.24	ND < 0.13	0.32	4.0	1.2	0.30	ND < 0.14	0.29	ND < 0.53	0.33	1.1	0.20	3.1	1,000	1,000
PCBs (USEPA Method 8082)																	
Aroclor 1016	mg/kg	ND < 0.14	ND < 0.13	ND < 0.13	ND < 0.16	ND < 0.14	ND < 0.15	ND < 0.14	ND < 0.14	ND < 0.13	ND < 0.10	ND < 0.11	ND < 0.11	ND < 0.12	ND < 0.12	1	1
Aroclor 1221	mg/kg	ND < 0.14	ND < 0.13	ND < 0.13	ND < 0.16	ND < 0.14	ND < 0.15	ND < 0.14	ND < 0.14	ND < 0.13	ND < 0.10	ND < 0.11	ND < 0.11	ND < 0.12	ND < 0.12	1	1
Aroclor 1232	mg/kg	ND < 0.14	ND < 0.13	ND < 0.13	ND < 0.16	ND < 0.14	ND < 0.15	ND < 0.14	ND < 0.14	ND < 0.13	ND < 0.10	ND < 0.11	ND < 0.11	ND < 0.12	ND < 0.12	1	1
Aroclor 1242	mg/kg	ND < 0.14	ND < 0.13	ND < 0.13	ND < 0.16	ND < 0.14	ND < 0.15	ND < 0.14	ND < 0.14	ND < 0.13	ND < 0.10	ND < 0.11	ND < 0.11	ND < 0.12	ND < 0.12	1	1
Aroclor 1248	mg/kg	ND < 0.14	ND < 0.13	ND < 0.13	ND < 0.16	ND < 0.14	ND < 0.15	ND < 0.14	ND < 0.14	ND < 0.13	ND < 0.10	ND < 0.11	ND < 0.11	ND < 0.12	ND < 0.12	1	1
Aroclor 1254	mg/kg	ND < 0.14	ND < 0.13	ND < 0.13	ND < 0.16	ND < 0.14	ND < 0.15	ND < 0.14	ND < 0.14	ND < 0.13	ND < 0.10	ND < 0.11	ND < 0.11	ND < 0.12	ND < 0.12	1	1
Aroclor 1260	mg/kg	ND < 0.14	ND < 0.13	ND < 0.13	ND < 0.16	0.20	ND < 0.15	ND < 0.14	ND < 0.14	ND < 0.13	ND < 0.10	ND < 0.11	ND < 0.11	ND < 0.12	ND < 0.12	1	1
Aroclor 1262	mg/kg	ND < 0.14	ND < 0.13	ND < 0.13	ND < 0.16	ND < 0.14	ND < 0.15	ND < 0.14	ND < 0.14	ND < 0.13	ND < 0.10	ND < 0.11	ND < 0.11	ND < 0.12	ND < 0.12	1	1
Aroclor 1268	mg/kg	ND < 0.14	ND < 0.13	ND < 0.13	ND < 0.16	ND < 0.14	ND < 0.15	ND < 0.14	ND < 0.14	ND < 0.13	ND < 0.10	ND < 0.11	ND < 0.11	ND < 0.12	ND < 0.12	1	1

NOTES:
MassDEP: Massachusetts Department of Environmental Protection
USEPA: United States Environmental Protection Agency
Only the last six digits of the sample number are listed
Highlighted, bold, and underliend values equal or exceed the Method 1 S-1 soil standards.
SS: soil sample
SB: soil boring
ND < X: compound not detected above laboratory reporting limit
Chromium speciation was not conducted and thus the standards reflect total chromium.
EPH: extractable petroleum hydrocarbons
PAH: polycyclic aromatic hydrocarbons
PCBs: polychlorinated biphenyls
fbg: feet below grade
NA: not analyzed
mg/kg: milligrams per kilogram
Created by: DCL
Checked by: DMHB

EPH and target PAH in samples 0319-01, -03, -08, -10, -12, -13, and -14 and 0827-04, -12, -14, -16, and -17 were reanalyzed due to analytical non-conformances. The higher of the reported EPH and PAH concentrations for these samples are presented here.

FUSS & O'NEILL

Table 1 (Continued)
Summary of Soil Analytical Data and Regulatory Standards
Collected March 19 and August 27, 2014

Mary Dennison Park
Framingham, Massachusetts
MassDEP RTN 3-32015

Prepared for the Town of Framingham

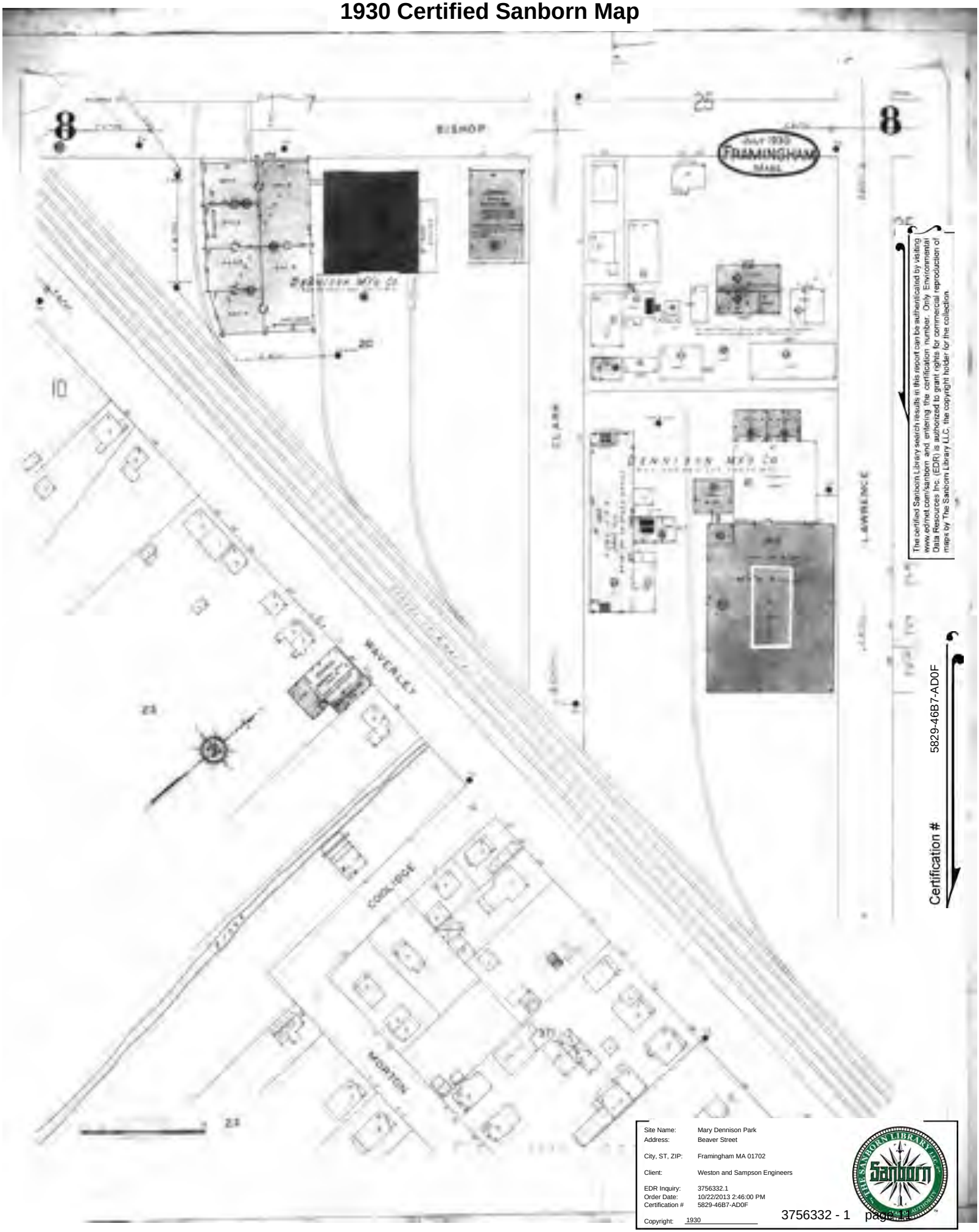
September 2014

	Location	SS-121	SS-126	SS-138		SS-141	SS-143	SS-154	SS-156	SS-160	SS-161	SS-162	SS-163		SS-164	**MassDEP Method 1 S-1 Soil Standards**	
	Sample Number	0827-06	0827-07	0827-08	0827-09	0827-10	0827-11	0827-12	0827-13	0827-14	0827-15	0827-16	0827-17	0827-18	0827-19		
	Sample Type	Primary	Primary	Primary	Duplicate	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Duplicate	Primary	**S-1/GW-2**	**S-1/GW-3**
	Sample Depth (fbg)	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	0-1		
Total Metals (USEPA Methods 6010/7471)	Units																
Antimony	mg/kg	ND < 2.6	4.4	ND < 2.7	ND < 2.7	ND < 4.2	2.8	ND < 4.0	ND < 2.7	ND < 2.7	ND < 2.6	ND < 2.6	12	5.1	ND < 2.6	20	20
Arsenic	mg/kg	6.6	8.3	7.9	7.2	7.2	4.9	9.9	3.8	3.5	5.4	4.6	11	11	5.1	20	20
Barium	mg/kg	110	190	110	120	940	270	370	32	58	300	180	650	690	260	1,000	1,000
Beryllium	mg/kg	0.53	0.51	0.68	0.65	0.45	0.36	0.52	0.37	0.4	0.44	0.44	0.59	0.52	0.48	90	90
Cadmium	mg/kg	1.3	1.5	0.93	0.94	21	1.4	5.2	0.80	1.0	1.8	1.4	4.0	3.2	1.4	70	70
Chromium	mg/kg	15	23	8.3	7.4	74	18	52	14	15	21	14	45	43	23	100	100
Lead	mg/kg	**370**	**310**	64	74	**510**	**380**	**560**	20	150	**490**	**260**	**2,100**	**1,800**	**500**	200	200
Mercury	mg/kg	0.19	0.23	0.075	0.10	0.20	0.40	0.33	0.12	0.11	2.9	0.18	0.19	0.19	0.19	20	20
Nickel	mg/kg	11	12	8.5	8.3	18	10	24	8.9	9.6	13	11	22	20	13	600	600
Selenium	mg/kg	ND < 5.2	ND < 5.9	ND < 5.3	ND < 5.5	ND < 8.5	ND < 5.1	ND < 7.9	ND < 5.4	ND < 5.5	ND < 5.1	ND < 5.3	ND < 5.5	ND < 5.5	ND < 5.3	400	400
Silver	mg/kg	ND < 0.52	ND < 0.59	ND < 0.53	ND < 0.55	ND < 0.85	ND < 0.51	ND < 0.79	ND < 0.54	ND < 0.55	ND < 0.51	ND < 0.53	ND < 0.55	ND < 0.55	ND < 0.53	100	100
Thallium	mg/kg	ND < 2.6	ND < 3.0	ND < 2.7	ND < 2.7	ND < 4.2	ND < 2.5	ND < 4.0	ND < 2.7	ND < 2.7	ND < 2.6	ND < 2.6	ND < 2.8	ND < 2.8	ND < 2.6	8	8
Vanadium	mg/kg	24	23	15	15	32	20	54	18	22	22	21	31	25	25	400	400
Zinc	mg/kg	210	440	110	100	**1,700**	390	**1,500**	29	160	500	370	**8,400**	**4,500**	370	1,000	1,000
Physiological Available Cyanide (MassDEP Method)	mg/kg	NA	ND < 0.53	ND < 0.50	ND < 0.50	NA	0.37	0.75	0.68	NA	ND < 0.50	NA	NA	NA	0.55	30	30
EPH with Target PAH (MassDEP Method)																	
C9-C18 Aliphatic Hydrocarbons	mg/kg	ND < 11	15	38	32	43	14	35	ND < 11	ND < 23	ND < 11	ND < 11	ND < 22	ND < 11	ND < 11	1,000	1,000
C19-C36 Aliphatic Hydrocarbons	mg/kg	31	28	19	13	300	30	250	24	56	31	28	75	90	56	3,000	3,000
C11-C22 Aromatic Hydrocarbons	mg/kg	84	70	160	130	280	110	200	36	69	94	84	100	110	54	1,000	1,000
Acenaphthene	mg/kg	0.12	ND < 0.12	ND < 0.11	ND < 0.11	ND < 0.34	0.41	0.27	ND < 0.11	ND < 0.23	0.15	ND < 0.11	ND < 0.22	ND < 0.11	ND < 0.11	1,000	1,000
Acenaphthylene	mg/kg	0.28	0.15	0.40	0.28	0.45	0.40	0.21	ND < 0.11	ND < 0.23	0.29	0.17	0.25	0.22	ND < 0.11	600	10
Anthracene	mg/kg	0.45	0.24	0.39	0.27	0.41	0.51	0.53	ND < 0.11	ND < 0.23	0.37	0.46	0.32	0.28	ND < 0.11	1,000	1,000
Benzo(a)anthracene	mg/kg	1.6	0.64	0.41	0.43	1.1	1.4	2.0	ND < 0.11	0.38	1.3	1.3	1.1	0.91	0.33	7	7
Benzo(a)pyrene	mg/kg	1.7	0.74	0.45	0.39	1.3	1.4	**2.0**	ND < 0.11	0.44	1.4	1.1	1.3	0.92	0.39	2	2
Benzo(b)fluoranthene	mg/kg	2.6	1.1	0.98	0.93	1.8	2.1	3.3	ND < 0.11	0.75	2.1	1.6	2.0	1.4	0.64	7	7
Benzo(g,h,i)perylene	mg/kg	1.1	0.54	0.23	0.21	1.1	0.78	1.4	ND < 0.11	0.36	0.93	0.58	0.87	0.65	0.29	1,000	1,000
Benzo(k)fluoranthene	mg/kg	0.93	0.38	0.28	0.28	0.59	0.64	1.2	ND < 0.11	0.23	0.69	0.59	0.67	0.45	0.20	70	70
Chrysene	mg/kg	2.3	1.0	1.3	0.81	1.7	2.3	2.8	ND < 0.11	0.58	1.8	1.5	1.6	1.3	0.53	70	70
Dibenz(a,h)anthracene	mg/kg	0.36	0.16	0.12	ND < 0.11	ND < 0.34	0.31	0.48	ND < 0.11	ND < 0.23	0.29	0.21	0.18	0.17	ND < 0.11	0.7	0.7
Fluoranthene	mg/kg	3.9	1.4	1.1	1.0	2.5	3.9	4.8	0.25	0.76	3.0	2.7	2.8	2.1	0.79	1,000	1,000
Fluorene	mg/kg	0.20	0.14	0.20	0.17	0.35	0.55	0.27	ND < 0.11	ND < 0.23	0.21	0.18	0.15	0.18	ND < 0.11	1,000	1,000
Indeno(1,2,3-cd)pyrene	mg/kg	1.4	0.57	0.32	0.26	1.1	0.94	1.7	ND < 0.11	0.45	1.1	0.83	1.1	0.77	0.34	7	7
2-Methylnaphthalene	mg/kg	ND < 0.11	ND < 0.12	0.18	0.15	ND < 0.34	0.28	ND < 0.32	ND < 0.11	ND < 0.23	ND < 0.11	ND < 0.11	ND < 0.22	ND < 0.11	ND < 0.11	80	300
Naphthalene	mg/kg	ND < 0.11	ND < 0.12	0.47	0.27	ND < 0.34	0.19	0.36	ND < 0.11	ND < 0.23	ND < 0.11	ND < 0.11	0.12	ND < 0.11	ND < 0.11	20	500
Phenanthrene	mg/kg	2.1	0.97	1.1	1.1	1.9	4.5	2.4	0.20	0.44	1.8	1.9	1.6	1.4	0.49	500	500
Pyrene	mg/kg	3.7	1.6	1.7	1.5	3.2	4.7	4.8	0.31	0.83	3.3	2.7	2.9	2.3	0.87	1,000	1,000
PCBs (USEPA Method 8082)																	
Aroclor 1016	mg/kg	ND < 0.11	ND < 0.12	ND < 0.11	ND < 0.11	ND < 0.17	ND < 0.10	ND < 0.16	ND < 0.11	ND < 0.11	ND < 0.10	ND < 0.11	ND < 0.11	ND < 0.11	ND < 0.11	1	1
Aroclor 1221	mg/kg	ND < 0.11	ND < 0.12	ND < 0.11	ND < 0.11	ND < 0.17	ND < 0.10	ND < 0.16	ND < 0.11	ND < 0.11	ND < 0.10	ND < 0.11	ND < 0.11	ND < 0.11	ND < 0.11	1	1
Aroclor 1232	mg/kg	ND < 0.11	ND < 0.12	ND < 0.11	ND < 0.11	ND < 0.17	ND < 0.10	ND < 0.16	ND < 0.11	ND < 0.11	ND < 0.10	ND < 0.11	ND < 0.11	ND < 0.11	ND < 0.11	1	1
Aroclor 1242	mg/kg	ND < 0.11	ND < 0.12	ND < 0.11	ND < 0.11	ND < 0.17	ND < 0.10	ND < 0.16	ND < 0.11	ND < 0.11	ND < 0.10	ND < 0.11	ND < 0.11	ND < 0.11	ND < 0.11	1	1
Aroclor 1248	mg/kg	ND < 0.11	ND < 0.12	ND < 0.11	ND < 0.11	ND < 0.17	ND < 0.10	ND < 0.16	ND < 0.11	ND < 0.11	ND < 0.10	ND < 0.11	ND < 0.11	ND < 0.11	ND < 0.11	1	1
Aroclor 1254	mg/kg	ND < 0.11	ND < 0.12	ND < 0.11	ND < 0.11	ND < 0.17	ND < 0.10	ND < 0.16	ND < 0.11	ND < 0.11	ND < 0.10	ND < 0.11	ND < 0.11	ND < 0.11	ND < 0.11	1	1
Aroclor 1260	mg/kg	0.13	ND < 0.12	ND < 0.11	ND < 0.11	0.42	0.23	0.30	ND < 0.11	0.60	0.18	ND < 0.11	0.30	0.26	0.27	1	1
Aroclor 1262	mg/kg	ND < 0.11	ND < 0.12	ND < 0.11	ND < 0.11	ND < 0.17	ND < 0.10	ND < 0.16	ND < 0.11	ND < 0.11	ND < 0.10	ND < 0.11	ND < 0.11	ND < 0.11	ND < 0.11	1	1
Aroclor 1268	mg/kg	ND < 0.11	ND < 0.12	ND < 0.11	ND < 0.11	ND < 0.17	ND < 0.10	ND < 0.16	ND < 0.11	ND < 0.11	ND < 0.10	ND < 0.11	ND < 0.11	ND < 0.11	ND < 0.11	1	1

NOTES:
MassDEP: Massachusetts Department of Environmental Protection
USEPA: United States Environmental Protection Agency
Only the last six digits of the sample number are listed
Highlighted, bold, and underliend values equal or exceed the Method 1 S-1 soil standards.
SS: soil sample
SB: soil boring
ND < X: compound not detected above laboratory reporting limit
Chromium speciation was not conducted and thus the standards reflect total chromium.
EPH: extractable petroleum hydrocarbons
PAH: polycyclic aromatic hydrocarbons
PCBs: polychlorinated biphenyls
fbg: feet below grade
NA: not analyzed
mg/kg: milligrams per kilogram
EPH and target PAH in samples 0319-01, -03, -08, -10, -12, -13, and -14 and 0827-04, -12, -14, -16, and -17 were reanalyzed due to analytical non-conformances. The higher of the reported EPH and PAH concentrations for these samples are presented here.

Created by: DCL
Checked by: DMHB

1930 Certified Sanborn Map

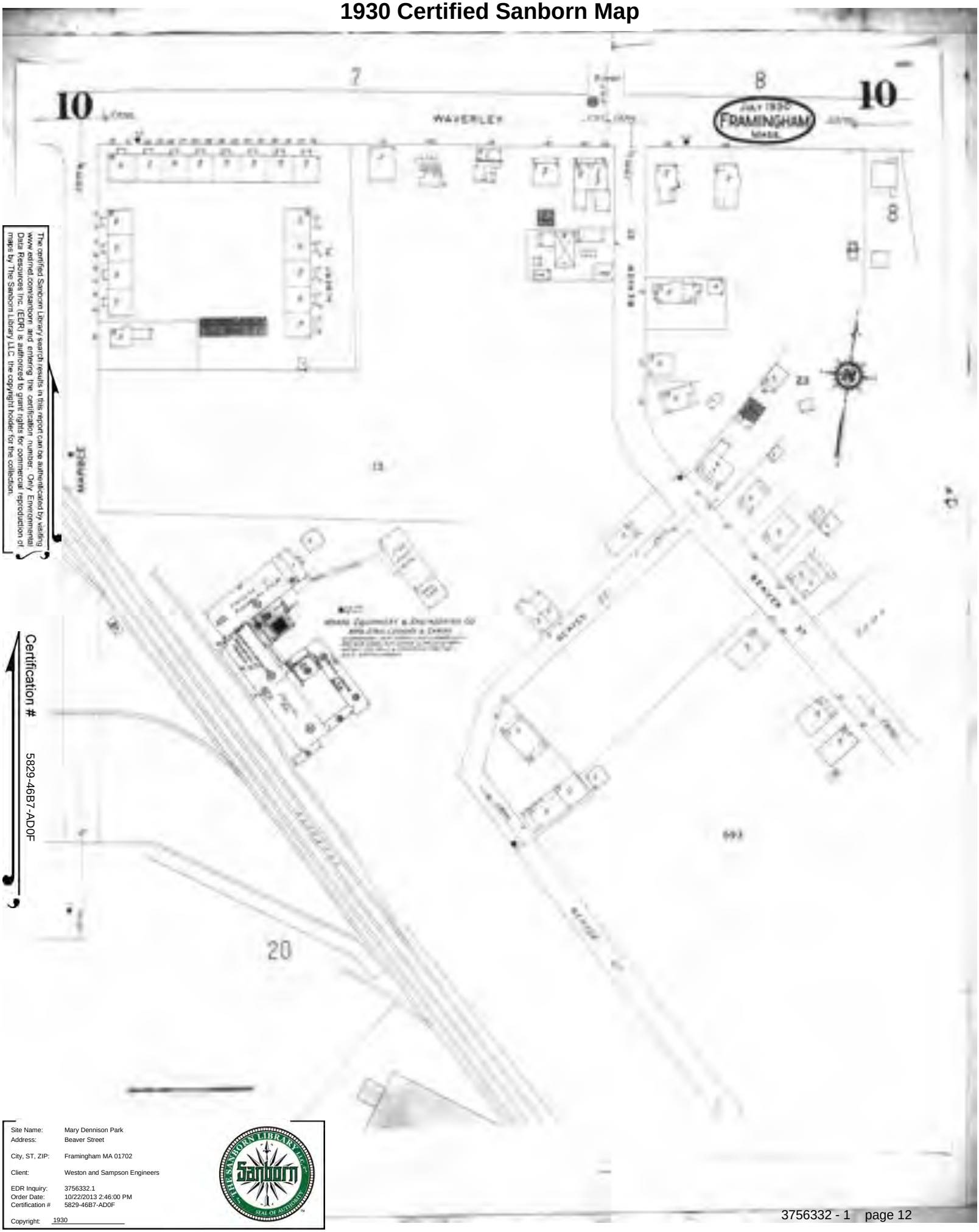


The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # 5829-46B7-AD0F

Site Name:	Mary Dennison Park
Address:	Beaver Street
City, ST, ZIP:	Framingham MA 01702
Client:	Weston and Sampson Engineers
EDR Inquiry:	3756332.1
Order Date:	10/22/2013 2:46:00 PM
Certification #	5829-46B7-AD0F
Copyright:	1930

1930 Certified Sanborn Map

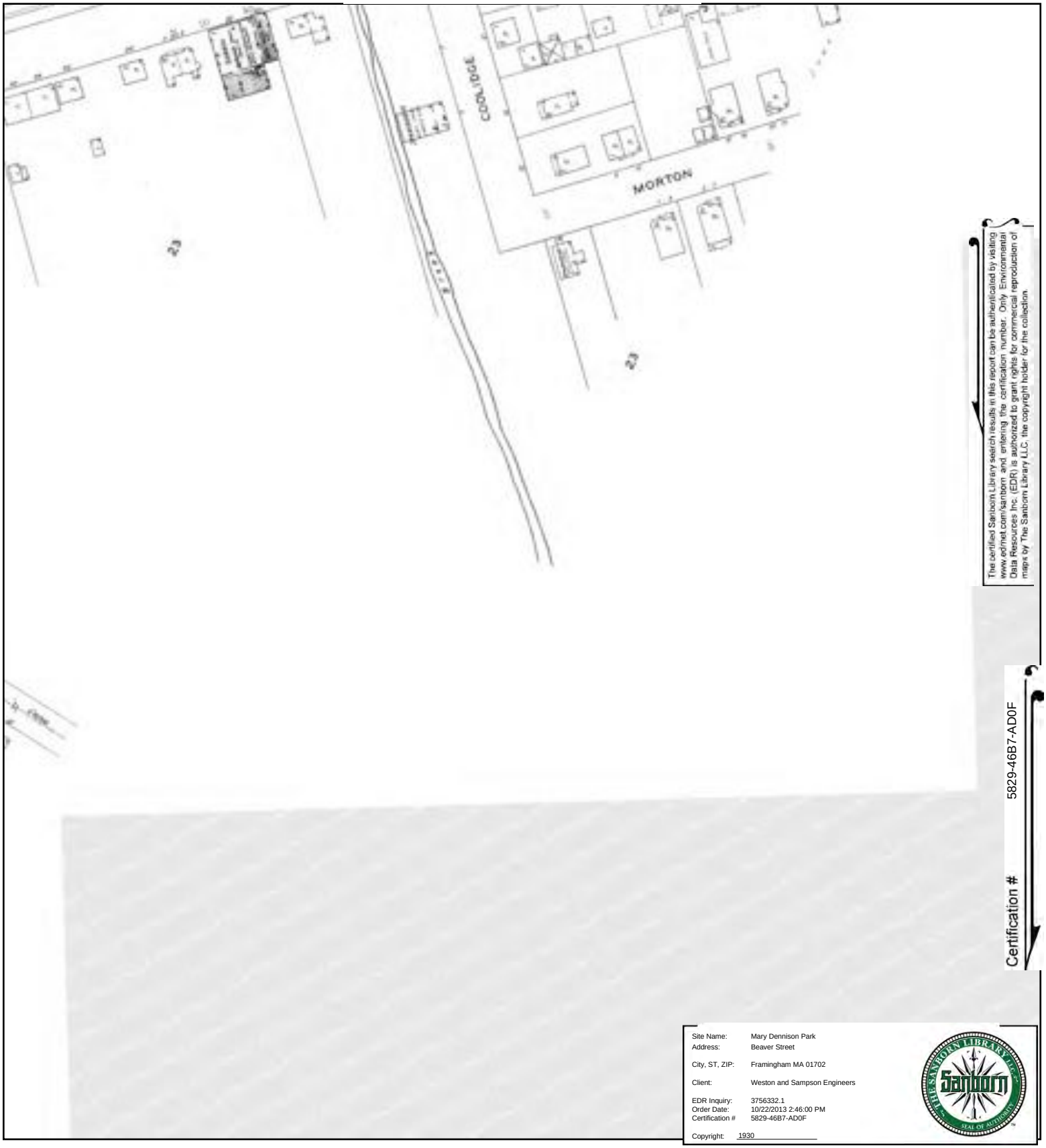


The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn, and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # 5829-46B7-AD0F

Site Name:	Mary Dennison Park
Address:	Beaver Street
City, ST, ZIP:	Framingham MA 01702
Client:	Weston and Sampson Engineers
EDR Inquiry:	3756332.1
Order Date:	10/22/2013 2:46:00 PM
Certification #	5829-46B7-AD0F
Copyright:	1930

1930 Certified Sanborn Map



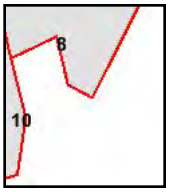
The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # 5829-46B7-AD0F

Site Name:	Mary Dennison Park
Address:	Beaver Street
City, ST, ZIP:	Framingham MA 01702
Client:	Weston and Sampson Engineers
EDR Inquiry:	3756332.1
Order Date:	10/22/2013 2:46:00 PM
Certification #	5829-46B7-AD0F
Copyright:	1930

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

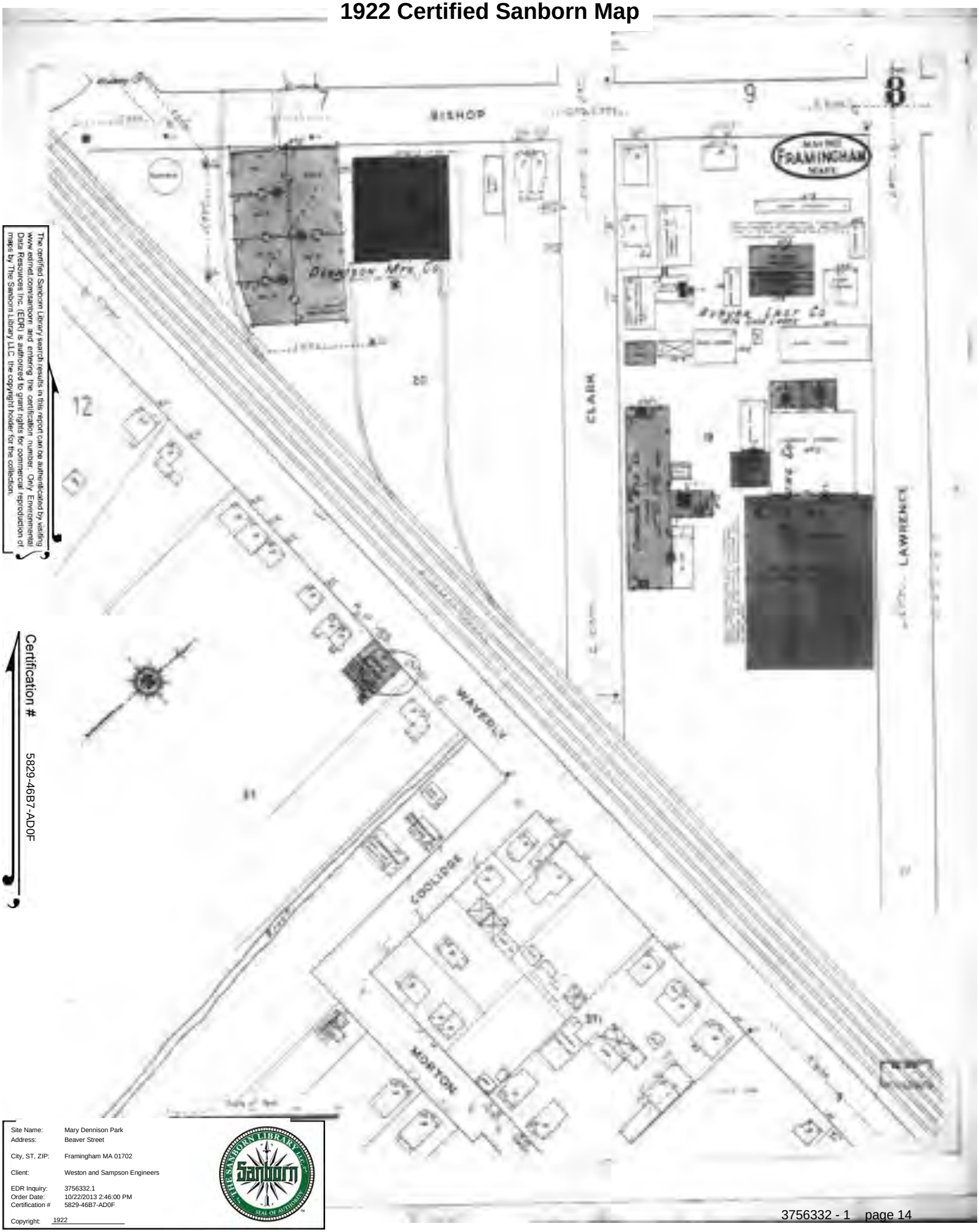
0 Feet 150 300 600



Volume 1, Sheet 8
Volume 1, Sheet 10

N

1922 Certified Sanborn Map

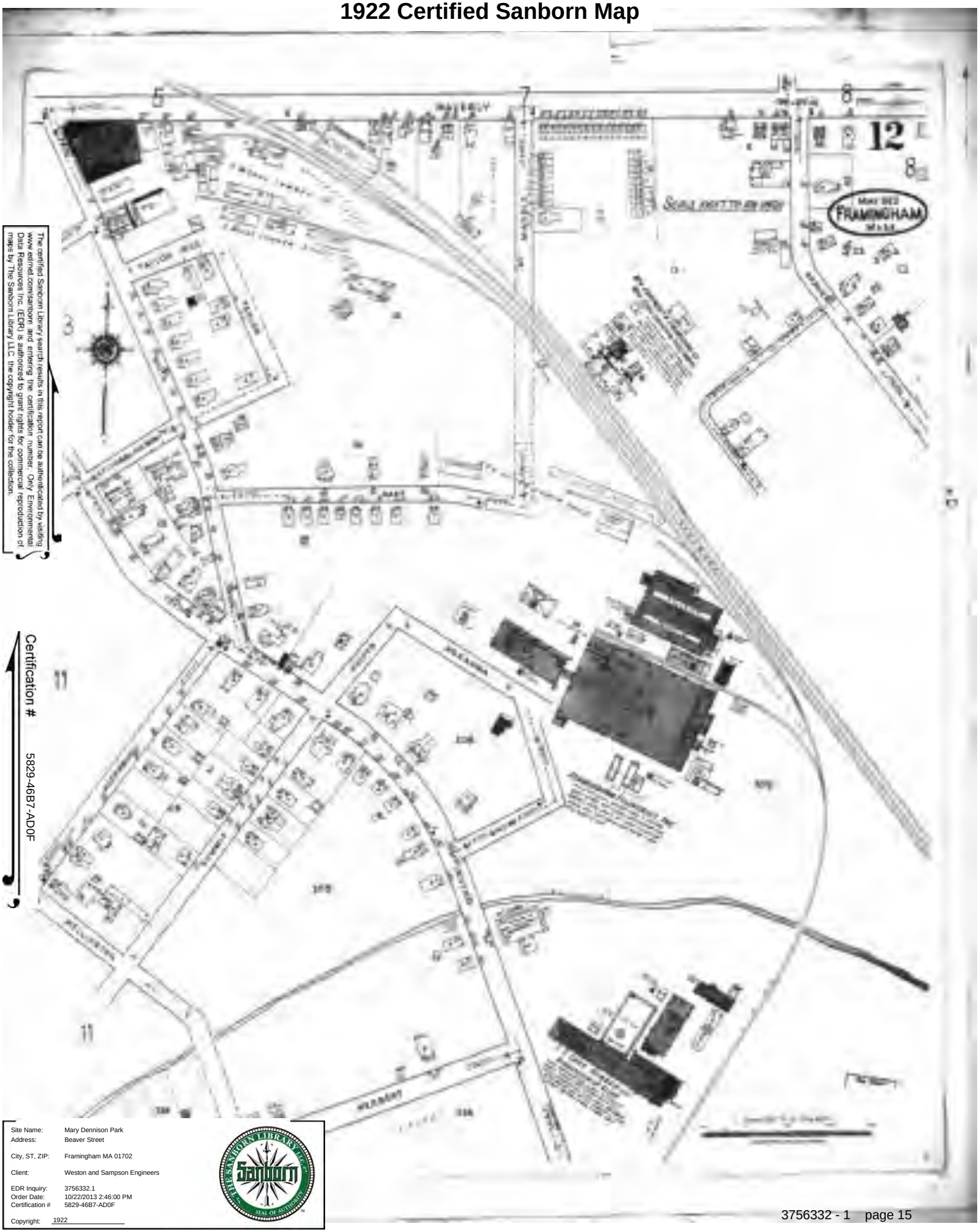


The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn, and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # 5829-46B7-AD0F

Site Name:	Mary Dennison Park
Address:	Beaver Street
City, ST, ZIP:	Framingham MA 01702
Client:	Weston and Sampson Engineers
EDR Inquiry:	3756332.1
Order Date:	10/22/2013 2:46:00 PM
Certification #	5829-46B7-AD0F
Copyright:	1922

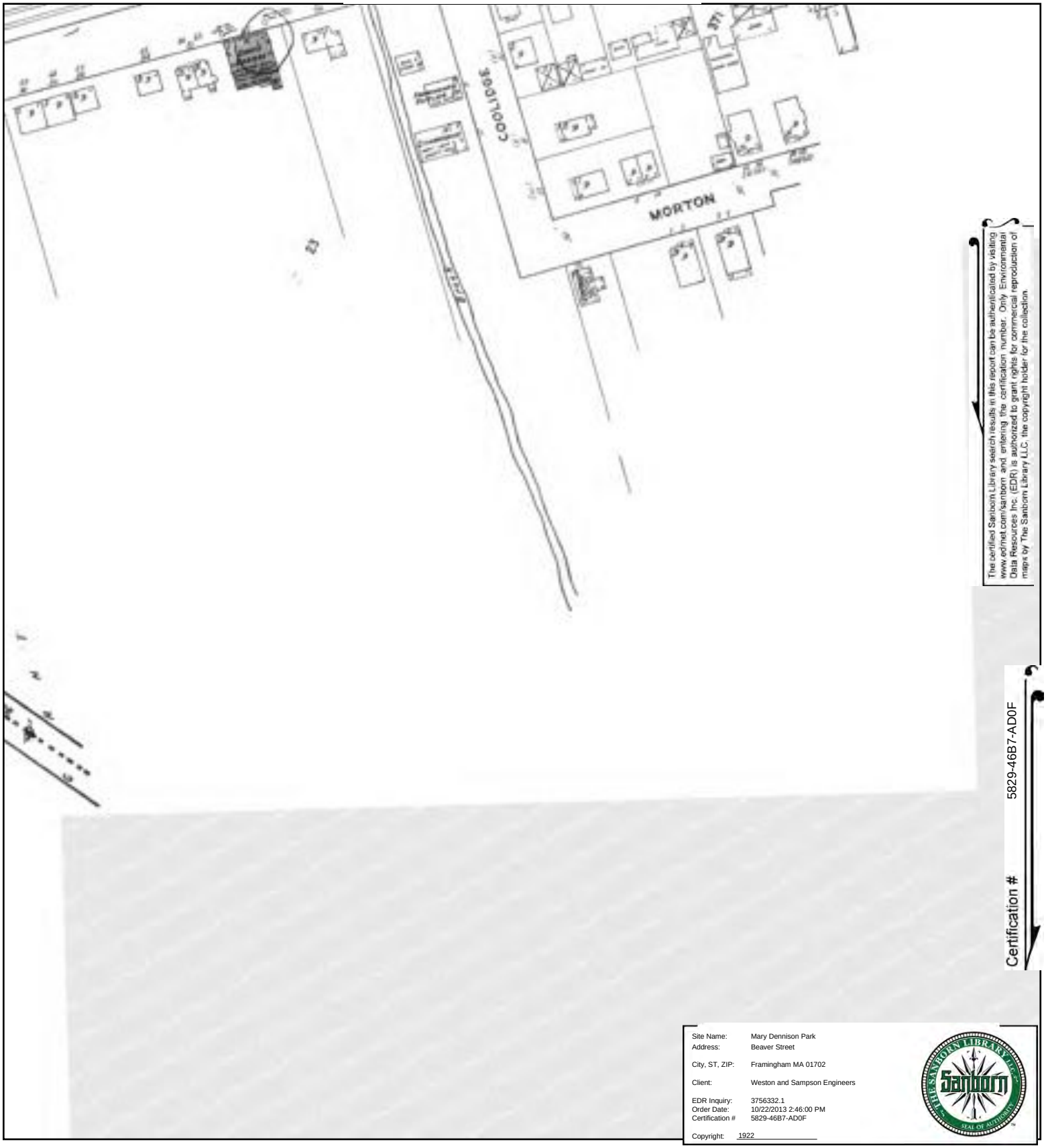
1922 Certified Sanborn Map



The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn, and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

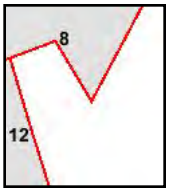
Site Name:	Mary Dennison Park
Address:	Beaver Street
City, ST, ZIP:	Framingham MA 01702
Client:	Weston and Sampson Engineers
EDR Inquiry:	3756332.1
Order Date:	10/22/2013 2:46:00 PM
Certification #	5829-46B7-AD0F
Copyright:	1922

1922 Certified Sanborn Map



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600



Volume 1, Sheet 8
Volume 1, Sheet 12

N

1915 Certified Sanborn Map

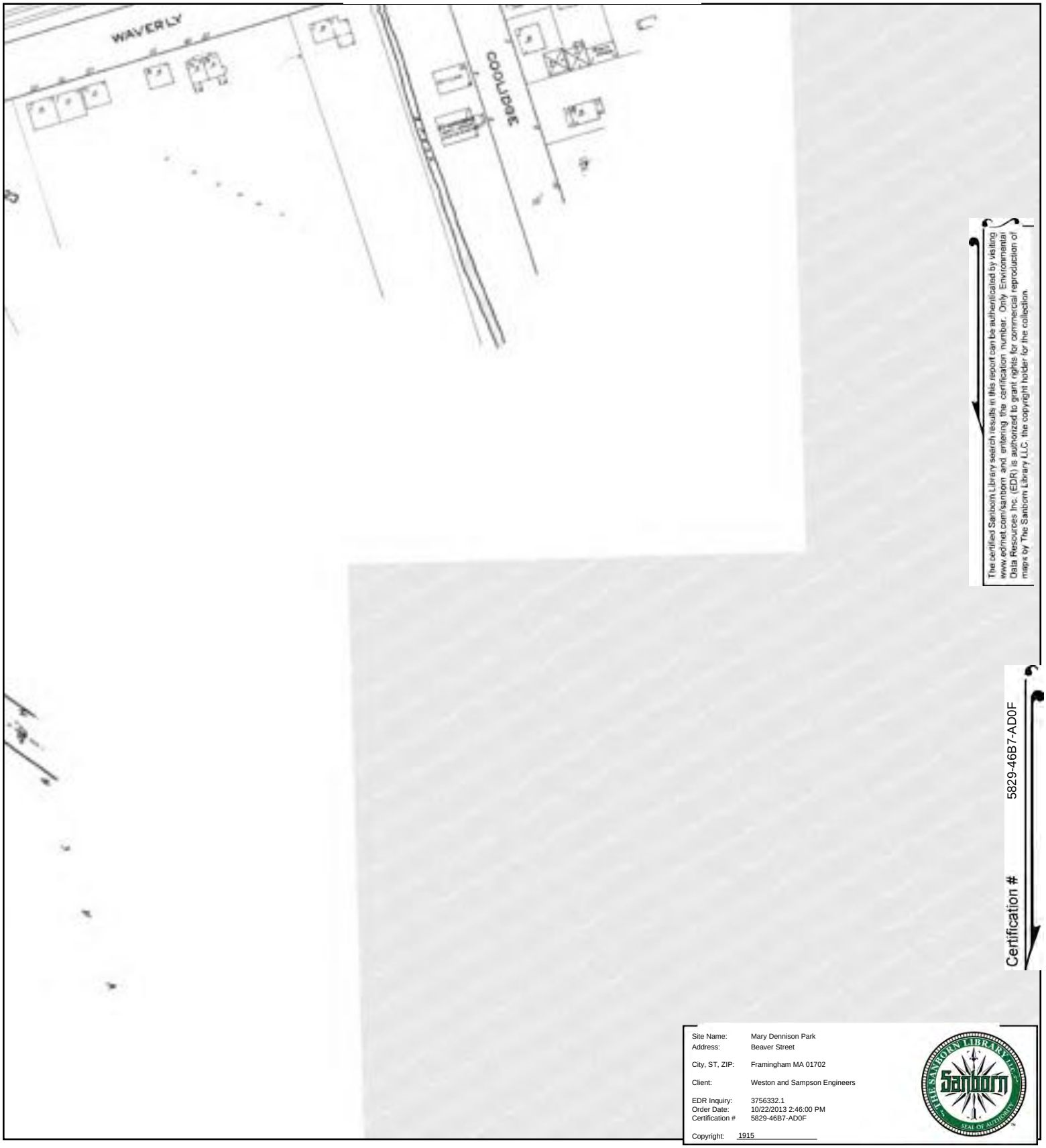
The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn, and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # 5829-46B7-AD0F

Site Name:	Mary Dennison Park
Address:	Beaver Street
City, ST, ZIP:	Framingham MA 01702
Client:	Weston and Sampson Engineers
EDR Inquiry:	3756332.1
Order Date:	10/22/2013 2:46:00 PM
Certification #	5829-46B7-AD0F

Copyright: 1915

1915 Certified Sanborn Map



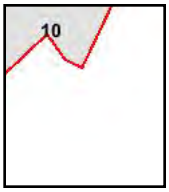
The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # 5829-46B7-AD0F

Site Name:	Mary Dennison Park
Address:	Beaver Street
City, ST, ZIP:	Framingham MA 01702
Client:	Weston and Sampson Engineers
EDR Inquiry:	3756332.1
Order Date:	10/22/2013 2:46:00 PM
Certification #	5829-46B7-AD0F
Copyright:	1915

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600



Volume 1, Sheet 10

N

Mary Dennison Park
Beaver Street
Framingham, MA 01702

Inquiry Number: 3756332.1
October 22, 2013

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

10/22/13

Site Name:
Mary Dennison Park
Beaver Street
Framingham, MA 01702

Client Name:
Weston and Sampson
5 Centennial Drive
Peabody, MA 01960

EDR Inquiry # 3756332.1

Contact: Sarah Destefano

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Weston and Sampson Engineers were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Mary Dennison Park
Address: Beaver Street
City, State, Zip: Framingham, MA 01702
Cross Street:
P.O. # NA
Project: Mary Dennison Park
Certification # 5829-46B7-AD0F

Sanborn® Library search results
Certification # 5829-46B7-AD0F

Maps Provided:

1968
1948
1930
1922
1915

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

Weston and Sampson Engineers (the client) is permitted to make up to THREE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Disclaimer - Copyright and Trademark notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2013 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1968 Source Sheets

Volume 1, Sheet 8

Volume 1, Sheet 10

1948 Source Sheets

Volume 1, Sheet 8

Volume 1, Sheet 10

1930 Source Sheets

Volume 1, Sheet 8

Volume 1, Sheet 10

1922 Source Sheets

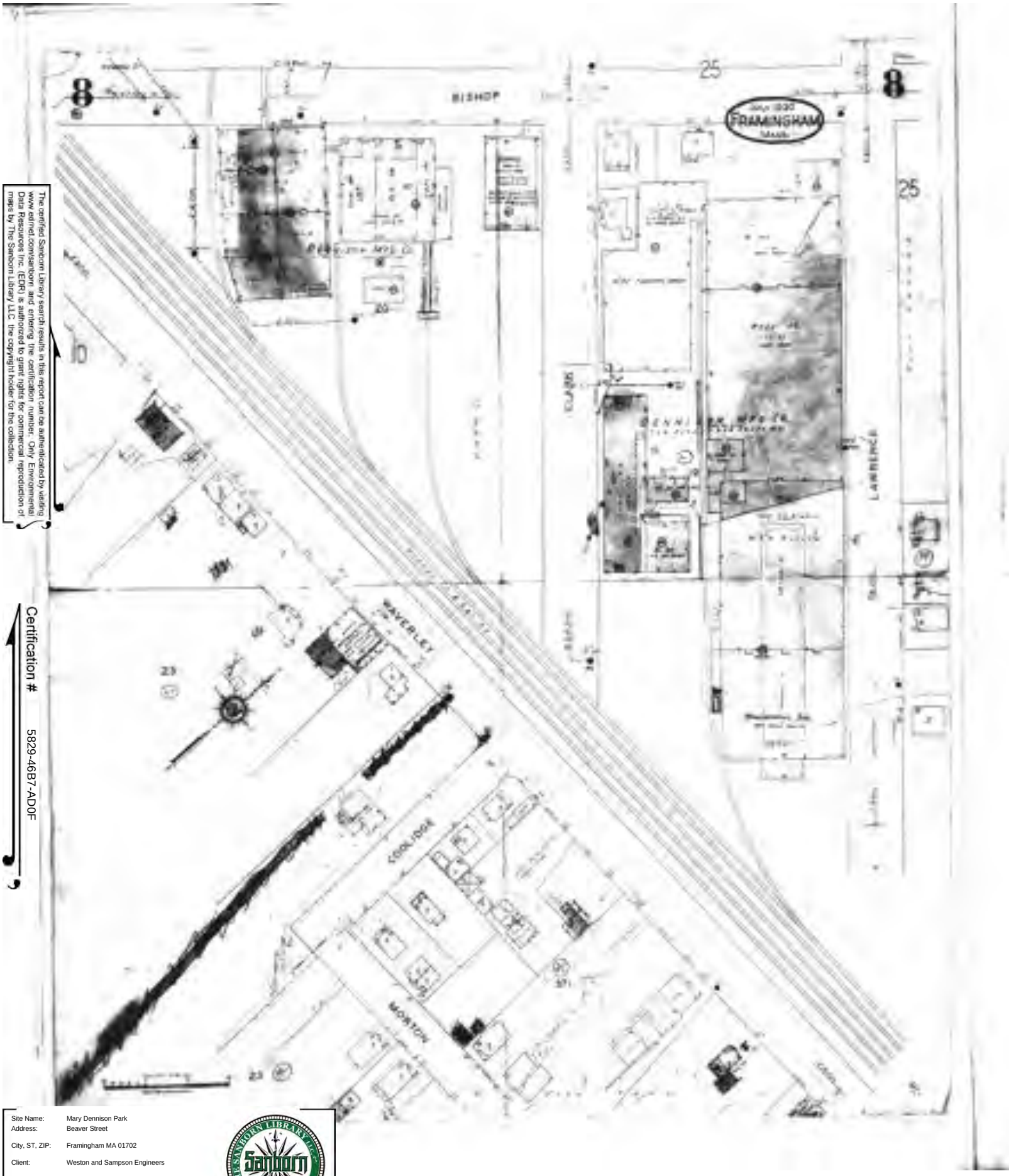
Volume 1, Sheet 8

Volume 1, Sheet 12

1915 Source Sheets

Volume 1, Sheet 10

1968 Certified Sanborn Map

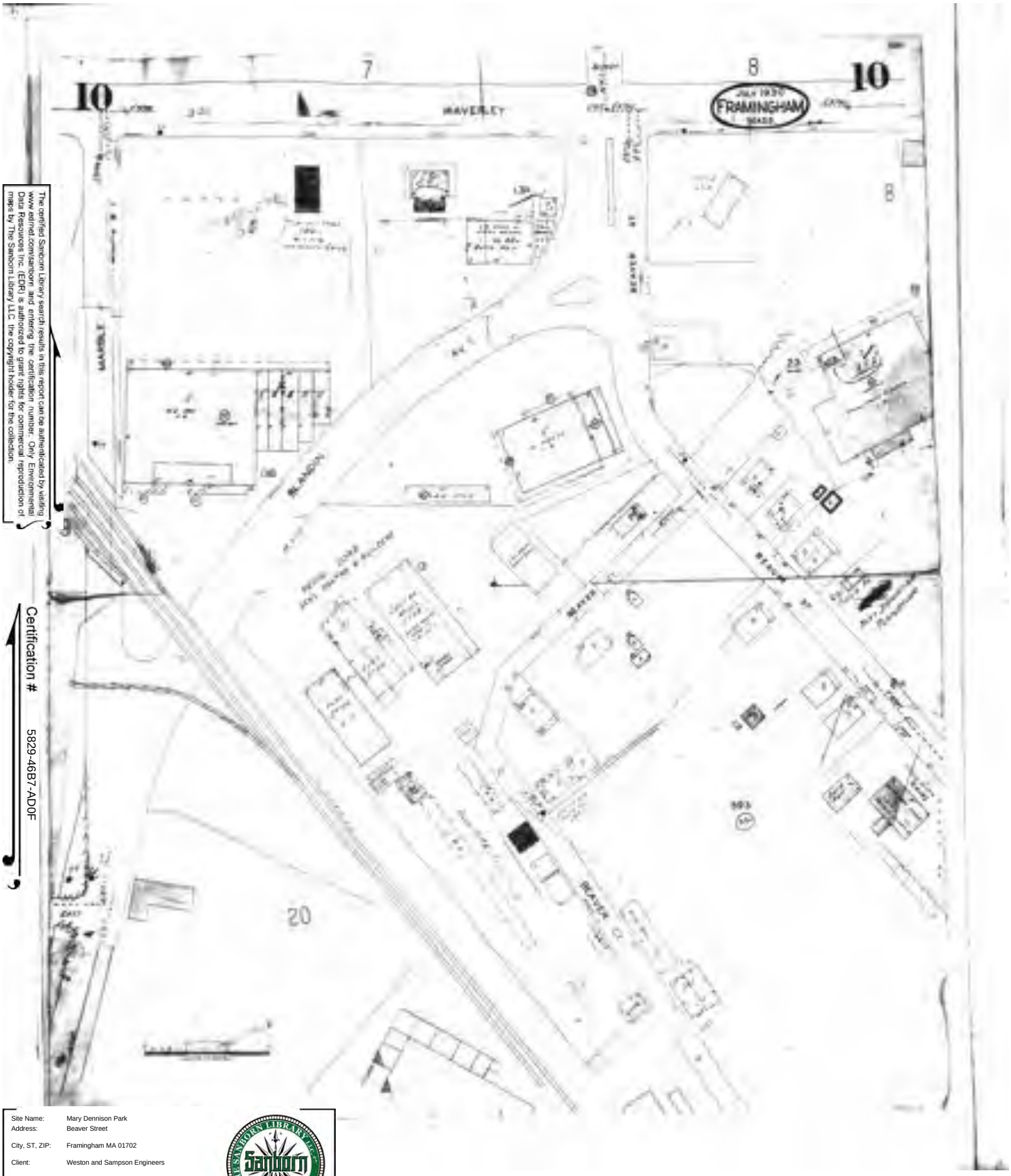


The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn, and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # 5829-46B7-AD0F

Site Name:	Mary Dennison Park
Address:	Beaver Street
City, ST, ZIP:	Framingham MA 01702
Client:	Weston and Sampson Engineers
EDR Inquiry:	3756332.1
Order Date:	10/22/2013 2:46:00 PM
Certification #	5829-46B7-AD0F
Copyright:	1968

1968 Certified Sanborn Map

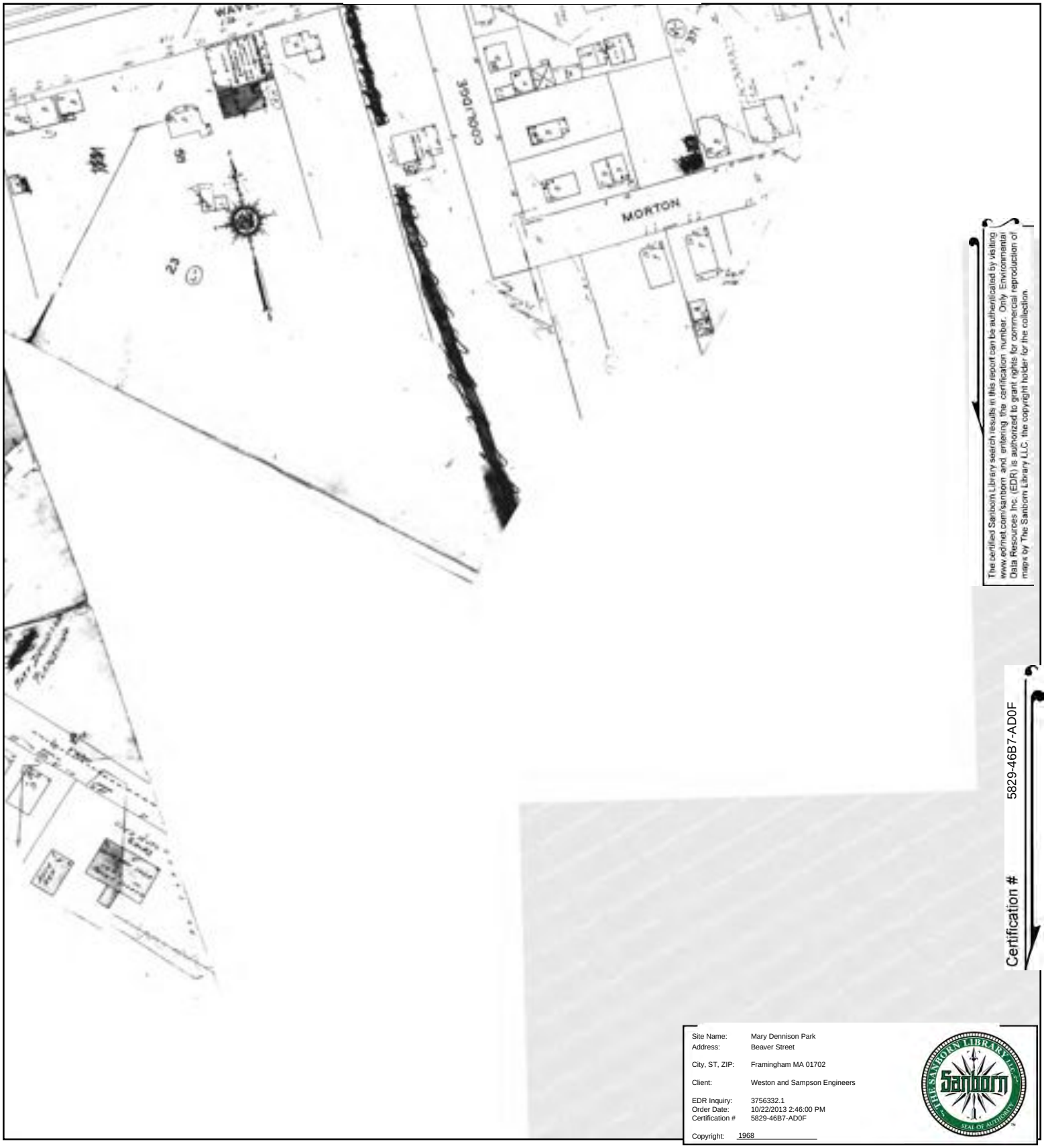


The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn, and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # 5829-46B7-AD0F

Site Name:	Mary Dennison Park
Address:	Beaver Street
City, ST, ZIP:	Framingham MA 01702
Client:	Weston and Sampson Engineers
EDR Inquiry:	3756332.1
Order Date:	10/22/2013 2:46:00 PM
Certification #	5829-46B7-AD0F
Copyright:	1968

1968 Certified Sanborn Map



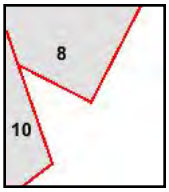
The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # 5829-46B7-AD0F

Site Name:	Mary Dennison Park
Address:	Beaver Street
City, ST, ZIP:	Framingham MA 01702
Client:	Weston and Sampson Engineers
EDR Inquiry:	3756332.1
Order Date:	10/22/2013 2:46:00 PM
Certification #	5829-46B7-AD0F
Copyright:	1968

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

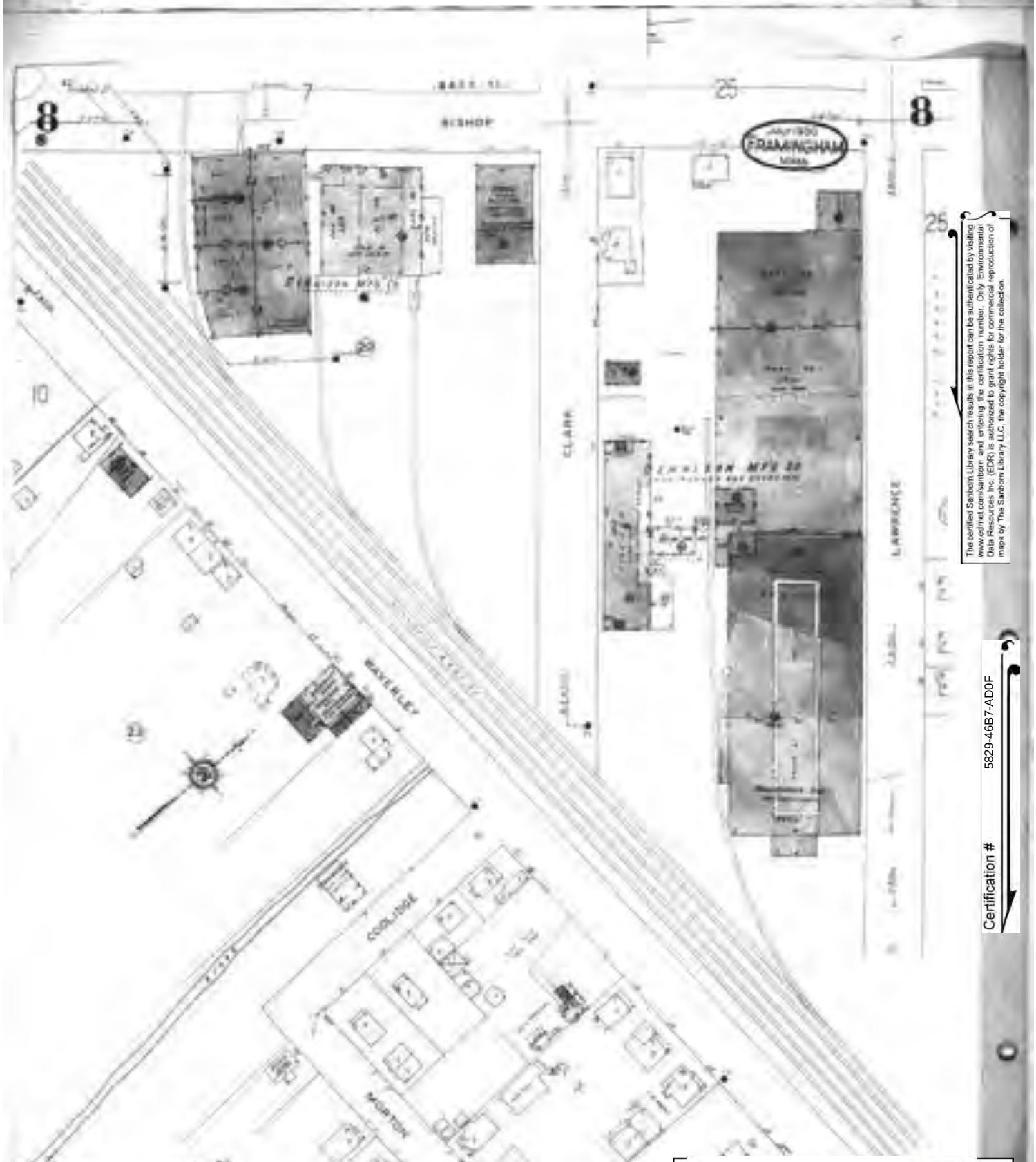
0 Feet 150 300 600



Volume 1, Sheet 8
Volume 1, Sheet 10

N

1948 Certified Sanborn Map

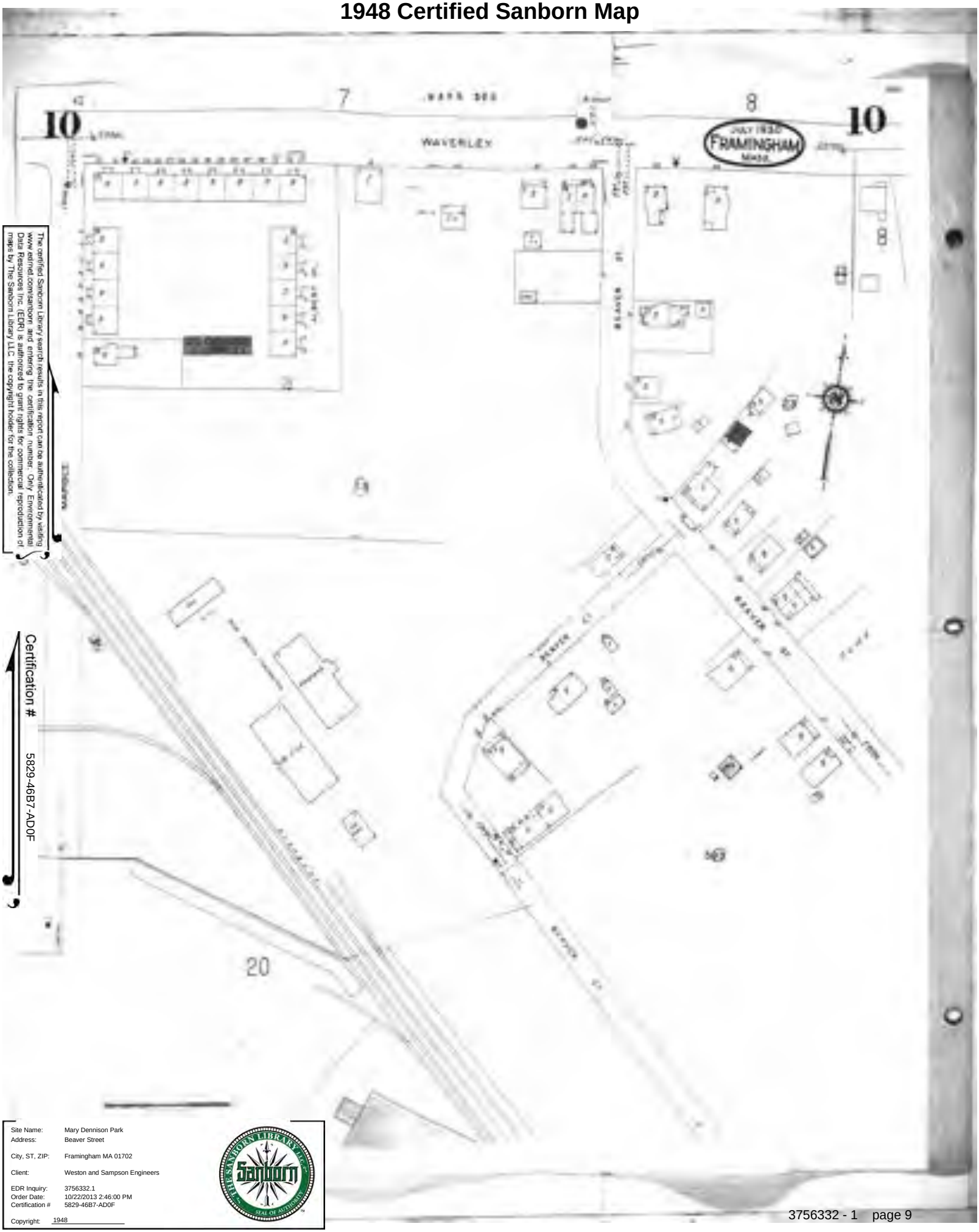


The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # 5829-46B7-AD0F

Site Name:	Mary Dennison Park
Address:	Beaver Street
City, ST, ZIP:	Framingham MA 01702
Client:	Weston and Sampson Engineers
EDR Inquiry:	3756332.1
Order Date:	10/22/2013 2:46:00 PM
Certification #	5829-46B7-AD0F
Copyright:	1948

1948 Certified Sanborn Map

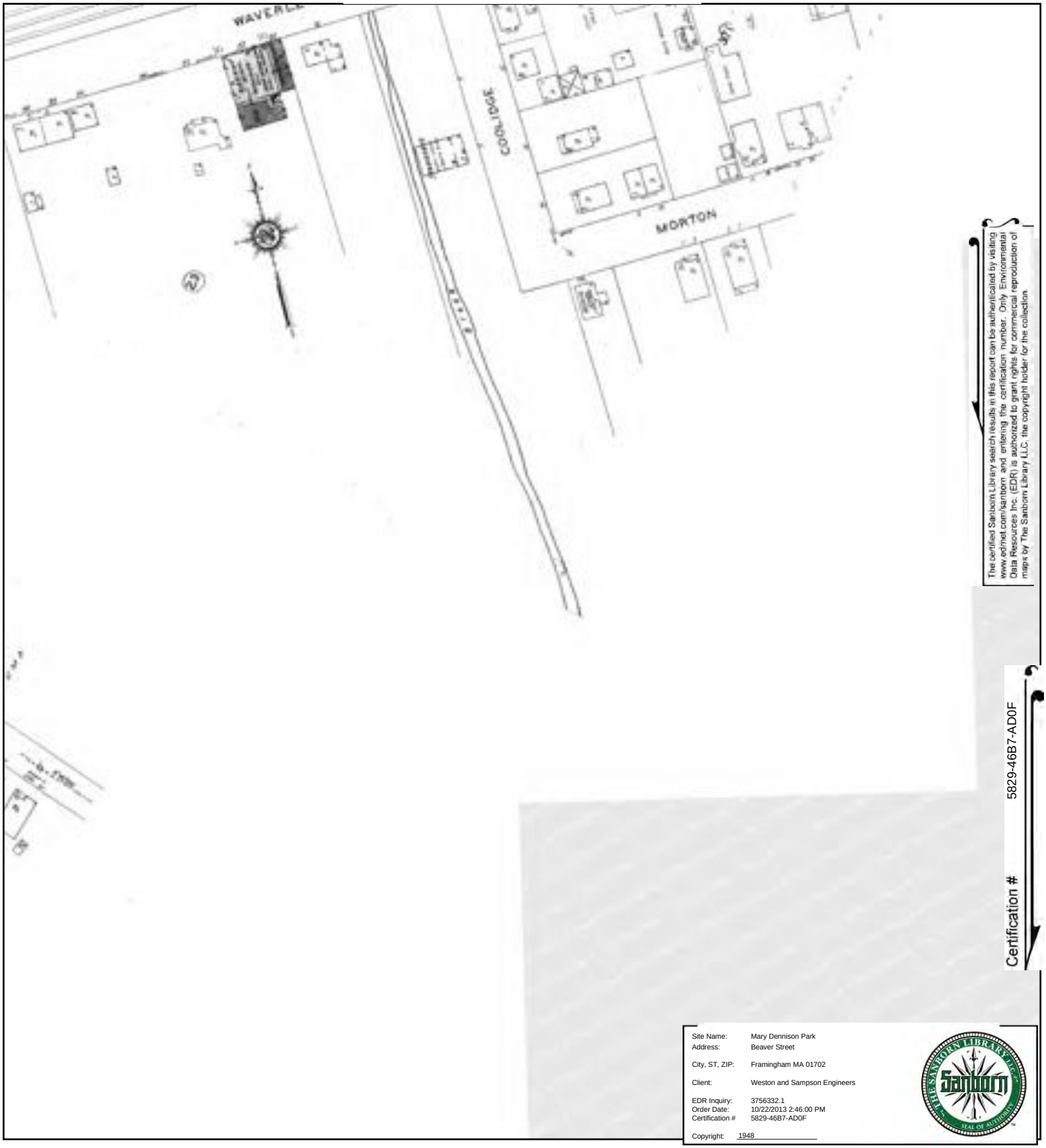


The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn, and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # 5829-46B7-AD0F

Site Name:	Mary Dennison Park
Address:	Beaver Street
City, ST, ZIP:	Framingham MA 01702
Client:	Weston and Sampson Engineers
EDR Inquiry:	3756332.1
Order Date:	10/22/2013 2:46:00 PM
Certification #	5829-46B7-AD0F
Copyright:	1948

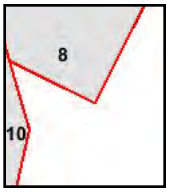
1948 Certified Sanborn Map



Site Name: Mary Dennison Park
Address: Beaver Street
City, ST, ZIP: Framingham MA 01702
Client: Weston and Sampson Engineers
EDR Inquiry: 3756332.1
Order Date: 10/22/2013 2:46:00 PM
Certification # 5829-46B7-AD0F
Copyright: 1948

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600



Volume 1, Sheet 8
Volume 1, Sheet 10

N

Mary Dennison Park
Beaver Street
Framingham, MA 01702

Inquiry Number: 3756332.3
October 16, 2013

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report AS IS. Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2013 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Date EDR Searched Historical Sources:

Aerial Photography October 16, 2013

Target Property:

Beaver Street

Framingham, MA 01702

Year	***Scale***	***Details***	***Source***
1957	Aerial Photograph. Scale: 1"=500'	Panel #: 42071-C4, Framingham, MA;/Flight Date: April 22, 1957	EDR
1963	Aerial Photograph. Scale: 1"=500'	Panel #: 42071-C4, Framingham, MA;/Flight Date: April 29, 1963	EDR
1969	Aerial Photograph. Scale: 1"=500'	Panel #: 42071-C4, Framingham, MA;/Flight Date: April 13, 1969	EDR
1978	Aerial Photograph. Scale: 1"=1000'	Panel #: 42071-C4, Framingham, MA;/Flight Date: May 12, 1978	EDR
1980	Aerial Photograph. Scale: 1"=750'	Panel #: 42071-C4, Framingham, MA;/Flight Date: October 10, 1980	EDR
1985	Aerial Photograph. Scale: 1"=500'	Panel #: 42071-C4, Framingham, MA;/Flight Date: March 16, 1985	EDR
1995	Aerial Photograph. Scale: 1"=500'	Panel #: 42071-C4, Framingham, MA;/DOQQ - acquisition dates: March 29, 1995	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 42071-C4, Framingham, MA;/Flight Year: 2006	EDR
2008	Aerial Photograph. Scale: 1"=500'	Panel #: 42071-C4, Framingham, MA;/Flight Year: 2008	EDR
2010	Aerial Photograph. Scale: 1"=500'	Panel #: 42071-C4, Framingham, MA;/Flight Year: 2010	EDR
2012	Aerial Photograph. Scale: 1"=500'	Panel #: 42071-C4, Framingham, MA;/Flight Year: 2012	EDR

INQUIRY #: 3756332.3
YEAR: 1957
= 500'
N

INQUIRY #: 3756332.3
YEAR: 1963
= 500'
N

INQUIRY #: 3756332.3
YEAR: 1969
= 500'
N

INQUIRY #: 3756332.3
YEAR: 1978
= 1000'
N

INQUIRY #: 3756332.3
YEAR: 1980
= 750'
N

INQUIRY #: 3756332.3
YEAR: 1985
= 500'
N

INQUIRY #: 3756332.3
YEAR: 1995
= 500'
N

INQUIRY #: 3756332.3
YEAR: 2006
= 500'
N

INQUIRY #: 3756332.3
YEAR: 2008
= 500'
N

INQUIRY #: 3756332.3
YEAR: 2010
= 500'
N

INQUIRY #: 3756332.3
YEAR: 2012
= 500'
N

September 9, 2014

David Foss, CPG, LSP
Fuss and O'Neill, Inc.
50 Redfield St., Suite 100
Boston, MA 02122

Project: Geophysical Survey – Mary Dennison Park, Beaver St, Framingham, MA

Dear David;

The following is a brief letter report detailing the results of the geophysical survey performed at the above referenced site. Site maps and/or pertinent ground penetrating radar (GPR) transects are contained in the report and Appendix A. It would be helpful to review Appendix A and the site maps when reading this report. TPI's standard practice is to indicate the results of the geophysical survey by marking all identified subsurface structures such as utility lines, tanks, and GPR anomalies etc. with chalk, paint or flags in the field. However, because of the nature of this site as a recreational facility, identified anomalies are depicted on Figure 1, but were not marked in the field. This report has been prepared to transfer data and results of data interpretation, which were performed during the time allotted in accordance with our approved scope of work.

Project Scope and Visual Site Inspection

TPI Environmental, Inc. (TPI) was contracted by Fuss and O'Neill, Inc. (client), who is working for the Town of Framingham, to scan the surface of the park and/or areas of concern (AOC) at the above-referenced location to confirm or rule out to the extent feasible the presence of significant amounts of buried metallic objects. The site consists of a public park owned by the Town of Framingham and located at the above address, as indicated on Figure 1. Upon arrival to the site on July 17th, 2014, TPI reviewed the site history with the client and performed a site walk to search to review site conditions. During the site walk the following areas of interest were noted;

- TPI noted no visual evidence of buried or partially buried metallic objects.

Methodology

Geophysical surveys are typically accomplished by employing the following techniques; GPR, Fisher TW6 electromagnetic metal detection (TW6 EM), a Geonics EM61-MK2 Time – Domain Electromagnetic Detector unit (EM61), radio frequency line locating (RF), and magnetics. The EM61 is a high power, high sensitivity metal detector capable of detecting both ferrous and non-ferrous metal. The TW6 EM unit sounds an audible alarm in the presence of a large mass of metal such as an underground storage tank (UST). A description and discussion of these geophysical methods as well as TPI's standard procedures for performing geophysical surveys is found in Appendix A. In general, "blind surveys" such as this one, where there are no previously

ffendler@tpienv.com 888-204-3266-Phone/Fax kfendler@tpienv.com
New Hope, PA Easton, PA

known buried metal objects, are typically performed by initially scanning the site with a TW6 EM unit and/or an EM61 unit and noting areas of relatively high EM response. Locations with a high EM response are further investigated with GPR. While EM data indicate the presence and the extent of buried metal, the purpose of the GPR is to provide additional insight into the physical characteristics (shape, depth of burial, etc.) of the EM anomalies. In general, EM instruments are capable of detecting a UST-sized object to a depth of approximately six feet below ground surface. The effective depth of GPR penetration varies from 0' to ~15' based upon the characteristics of the soil and depth to groundwater. Known utilities are typically traced with the RF unit, GPR, and the TW6 EM unit depending on the size, matrix and conductive properties of the line. EM units are typically not effective and practical in areas underlain with reinforced concrete and/or the presence of ubiquitous metallic objects.

During EM61 surveys the EM response is sampled at four time positions at each survey point (every 0.62-feet). These four readings allow for the discrimination of targets based on target size, shape, material, and orientation. Furthermore the EM61 is designed in such a way that it is possible to distinguish deeper objects from shallow ones. In channel D mode the system suppresses near surface targets that may mask the response of deeper more important targets. This feature is useful when the purpose of the survey is to locate deeper targets, such as USTs, in the presence of near surface metallic objects such as monitor well covers.

Geophysical Survey Results

The geophysical survey at this site was accomplished with the EM61, TW6 EM and GPR units. The EM61 unit was used to scan the majority of the site with the exception of areas within five feet of metallic objects (walls, vehicles, fences, etc.). The TW6 EM unit was used to further constrain anomalies detected during the EM61 survey. EM61 data collected on-site were retained on a data recorder, processed, and presented as Figure 1 in this report. Multiple GPR transects were collected across the metallic anomalies identified during the EM survey with representative transects presented in Appendix A. Maps of the survey results are contained in this report and Appendix A. Results of the geophysical survey are as follows;

- TPI detected scattered amounts of buried metallic structures across the site. Based on the data, TPI grouped the greatest concentrations of metallic structures into four clusters as indicated in Figure 1. GPR transects collected throughout the four clusters revealed the following:

  Areas C1, C2 – GPR transects detected a distinct, metallic, layer-style reflection at 1' -3' below ground surface (bgs) throughout the areas of high EM response. This style of GPR reflection, in combination with the average strength of the EM response, suggests that much of this elevated EM response is caused by a layer of conductive fill materials such as coal slag and/or ash.

  Areas C3, C4 – GPR transects collected throughout these areas detected metallic debris-style GPR reflections from 2' – 6' bgs. It is worthwhile to note that the distinct, layer style reflection associated with C1 and C2 (similar to coal slag and/or ash) was not detected in association with the C3 and C4 areas.

- Likely sanitary and/or storm sewer lines were detected during the EM survey (Figure 1). The results of this survey should not be considered as a complete report on the presence or absence of additional utility lines within the survey area.

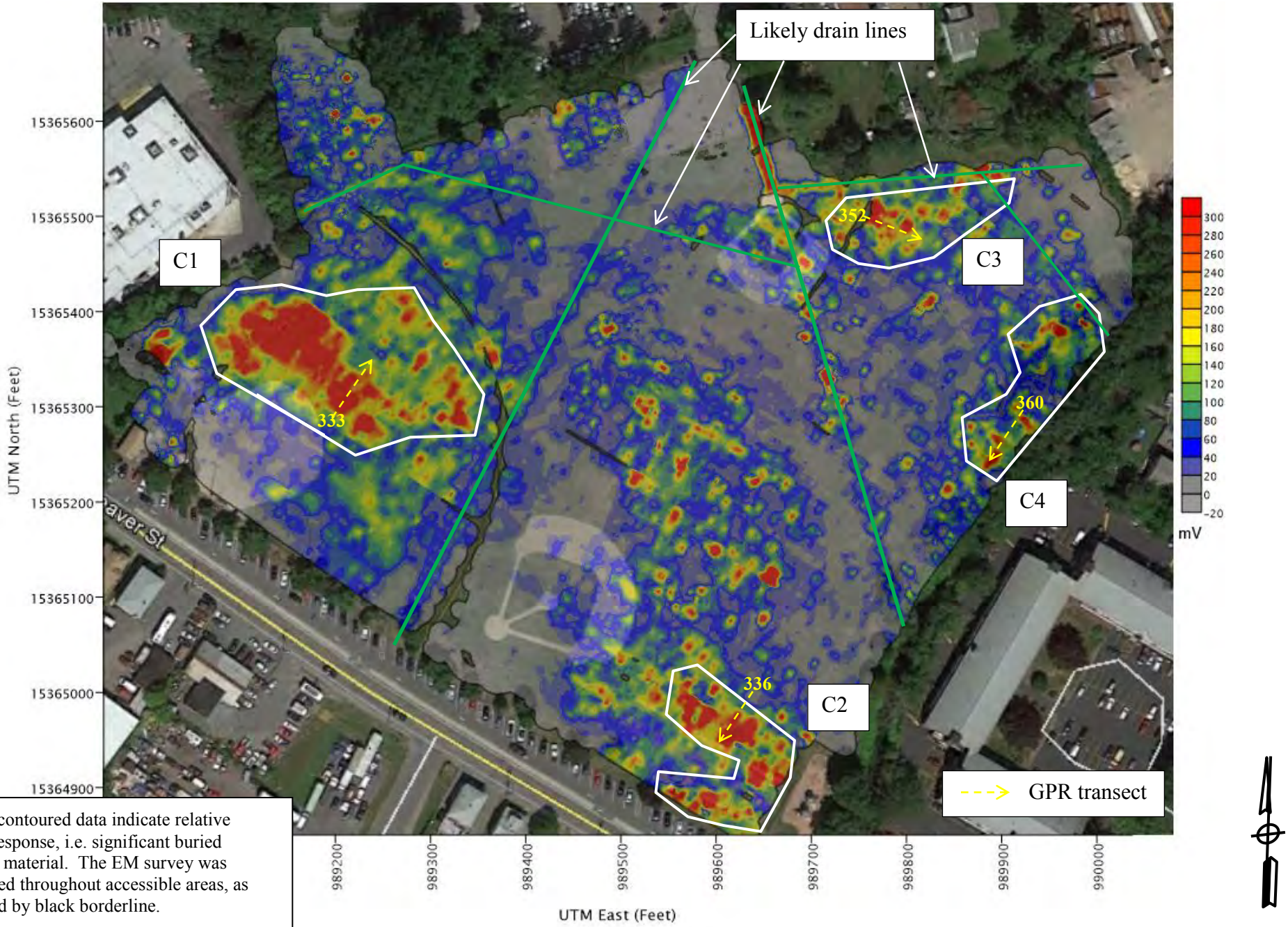
TPI completes non-intrusive geophysical surveys using equipment and techniques representing best available technology. TPI does not accept responsibility for survey limitations due to inherent technological limitations or unforeseen and varying site-specific conditions such as metal-reinforced concrete. In practical terms, TPI serves to reduce the risk of encountering subsurface utilities during excavation operations or greatly increase the chance of locating man made subsurface objects depending on the goal of the project. The results of this investigation should only be used as a tool and should not be considered a guarantee regarding the presence or absence of USTs or piping.

If you should require additional information or have any questions, please do not hesitate to contact me at the above phone number or email me at ffendler@tpienv.com.

Sincerely,

Frank Fendler, M.S, P.G.
President

Michael Robbins, M.S.
Geologist



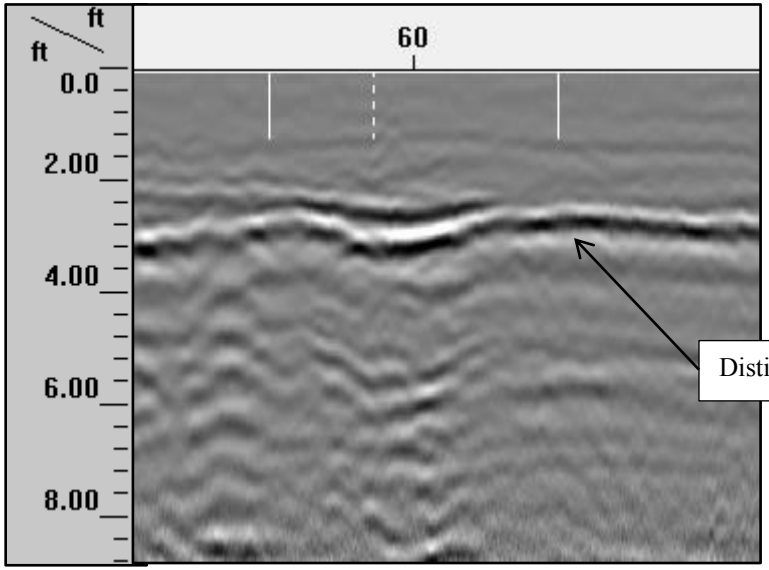
*Color contoured data indicate relative EM61 response, i.e. significant buried metallic material. The EM survey was conducted throughout accessible areas, as indicated by black borderline.

TPI environmental	Mary Dennison Park, Beaver St, Framingham, MA		Figure 1
	Client: Fuss & O'Neill	Date: 7/17/14	EM61 Survey Results

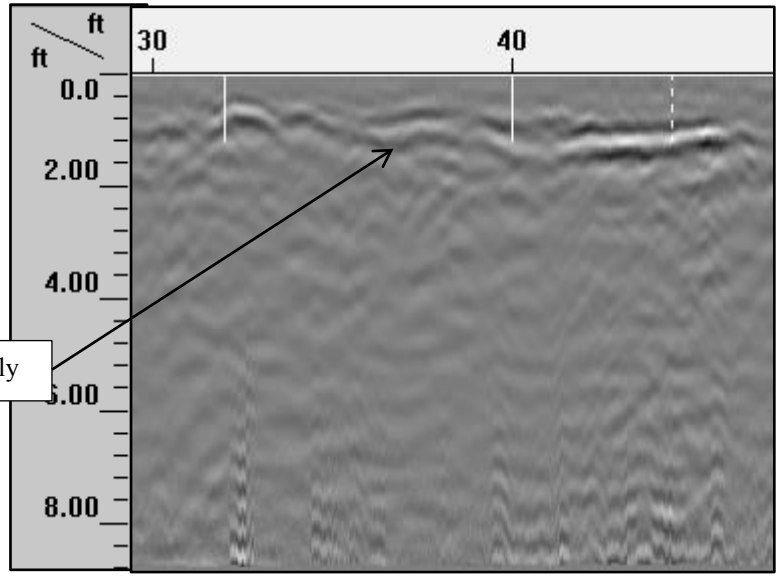
Appendix A

Representative GPR Transects and Survey Methods

GPR Transect 333
North Across C1

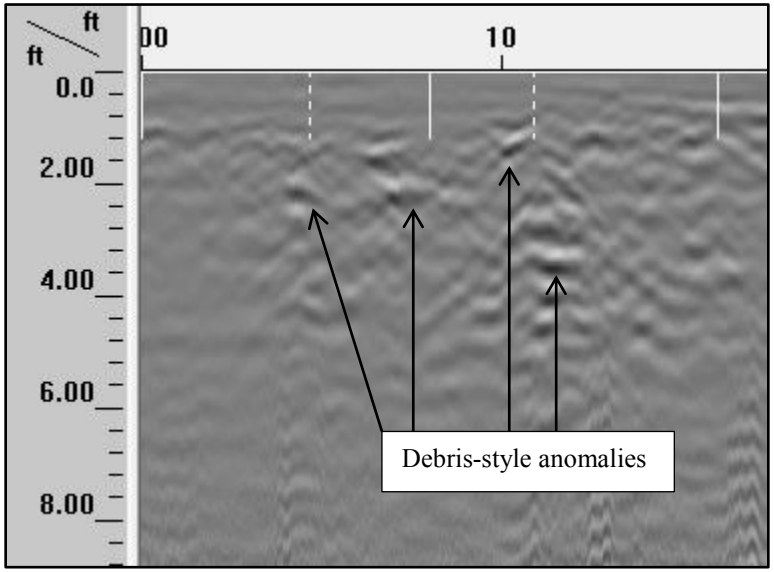


GPR Transect 336
South Across C2



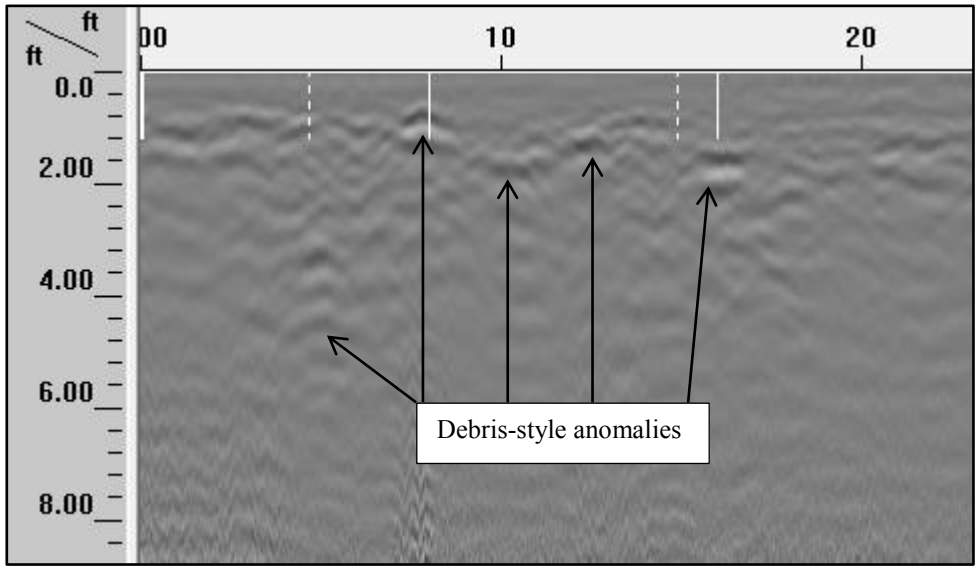
Distinct layer-style anomaly

GPR Transect 352
East Across C3



Debris-style anomalies

GPR Transect 360
South Across C4



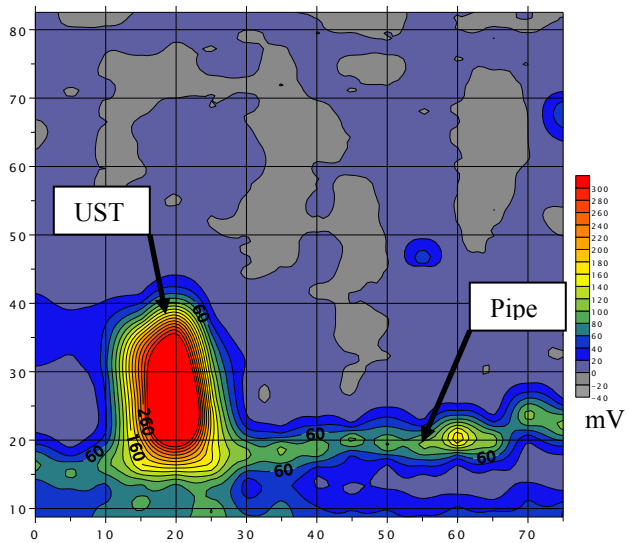
Debris-style anomalies

Attachment A
TPI's Geophysical Survey Equipment & Methods

Geonics EM61-MK2

The EM61 is a high resolution time-domain metal detector which is used to detect ferrous and non-ferrous metallic objects. It consists of a powerful transmitter that generates a pulsed primary magnetic field, which induces eddy currents in nearby metallic objects. The decay of these currents is measured by two receiver coils mounted on the coil assembly. The responses are recorded and displayed by an integrated computer based digital data logger with real time numeric and graphic display. Two ports on the logger allows simultaneous collection of EM and GPS data. For further processing and interpretation data can be transferred to a laptop computer in the field and a color contoured map of the EM61 reponse is prepared (see below).

EM61 Color Contoured Map



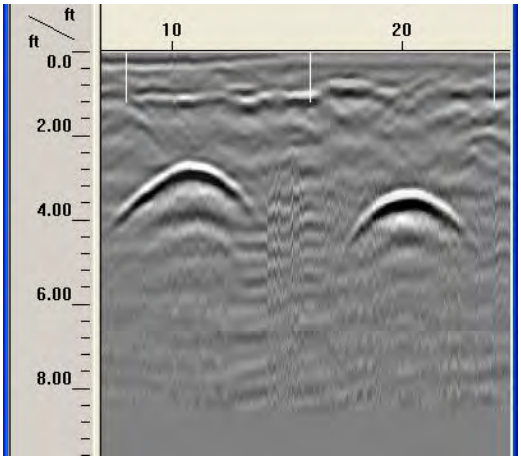
The EM61-MK2 detects a single 55 gallon drum at a depth of over 10-feet beneath the instrument, yet it is relatively insentsitive to interference from nearby surface metal such as fences, buildings, cars, etc. By making the measurement at a relatively long time after termination of the primary pulse, the response is practically independent of the electrical conductivity of the ground.

Due to its unique coil arrangements, the response curve is a single well defined positive peak greatly facilitating quick and accurate location of the target, the depth of which can usually be estimated from the width of the response and/or from relative response from each of the two receiver coils.

GPR

This method is one of the most powerful and cost effective methods of locating man made objects and stratigraphic layers in the subsurface. It is an active method that transmits electromagnetic pulses into the ground, the radar pulses are reflected from materials or layers of differing dielectric and electrical conductive properties. The GPR computer measures the elapsed time in billionths of a second (nanoseconds) from when the pulses are sent and when they are received back at the surface that can then be converted to depth. Results of the radar scan are displayed as a continuous cross-section of the subsurface on the computer screen in real time. Metallic materials such as tanks, pipes, conduits, rebar etc. have vastly different dielectric properties then soils so there reflections are striking and relatively easy to identify. Pipes and tanks constructed of PVC, concrete, and terracotta also produce distinct reflections, however, these reflections are typically not as striking as metallic materials. A typical radar image of two metallic underground storage tanks is found below.

GPR Image of Two Metallic USTs



GPR surveys are conducted with the most advanced GPR equipment currently available

724 S. 27th Street
Easton, PA 18045
ffendler@tpienv.com
www.tpienv.com
888-204-3266-Phone
888-204-3266-Fax

including a Geophysical Survey Systems (GSSI) SIR-3000 subsurface radar unit with a 400 MHz antenna. The 400 MHz antenna has a depth range of approximately 20-feet and other antennas may be employed with the system depending on specific site conditions and objectives of the survey. The GPR transect data may be saved on the internal hard drive and transferred to a PC for storage, printing, and post processing. GSSI is the world leader in the development of GPR systems and was the first company to commercialize GPR in 1970. GPR hardware and software has improved dramatically over the last several years allowing for relatively rapid and economical GPR surveys. With 3-dimensional capabilities, the latest GPR software takes data processing a step farther then the former 2-dimensional viewing method. Three-dimensional visualization helps you to see the whole picture, giving you a powerful tool to interpret complex utility layouts and identify subtle linear features that may have otherwise been missed.

GPR surveys are typically conducted by searching for GPR hyperbolas indicative of subsurface pipes or tanks signatures in the vicinity of known entities. Theses signatures are marked on the ground and areas progressively further from the known entity are scanned and marked. This process is continued until the GPR operator performed enough scans to determine and mark the subsurface pipe, tank or anomaly. During this process the GPR data is typically not saved due to the immense size of the data files. After this phase of the GPR survey is completed, representative GPR transects or grids are performed and saved for the report and post processing. Some of the factors that may negatively affect GPR results include clay soils, rebar in concrete, high moisture content, depth of the target, and the integrity, size, and material of the target.

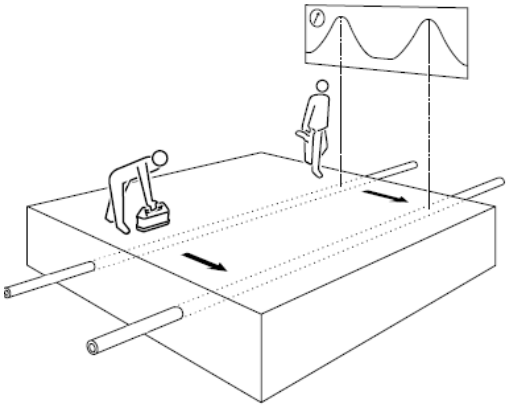
TW-6 EM Unit

TPI routinely employs a Fisher TW-6 electromagnetic metal detector when performing GPR surveys. The TW-6 creates an electromagnetic field with a transmitting coil and measures the strength of that field with a receiving coil. As the TW-6 passes over electrically conductive materials such as metal tanks or drums the field is distorted and the instrument produces an audible alarm based on the degree of the distortion. The TW-6 can detect conductive materials the size of drums or small tanks to depths of 10-feet. The instrument is actually a relatively poor metal detector which makes it ideal for locating large conductive materials such as metal drums, medium to large metal pipes, reinforced concrete pipes, and metal tanks. A more sensitive metal detector would produce "false positives" on small pieces of metal that are typically found in fill and throughout developed sites. If the survey area is underlain by reinforced concrete or cars and other large surficial metallic features are within 10-feet, the TW-6 will not be useful.

Line Locating

Line locating is performed with a Radiodetection RD400 PXL-2 line locator with a 433 HCTX-2 transmitter. The transmitter emits a specific radio or electromagnetic signal which is indirectly induced or directly conducted onto the metallic line. The transmitter is capable of producing frequencies of 512 Hz, 8 kHz, or 33 kHz and the receiver is configured for the specific transmitted frequency. The induced signal is coupled with the line by either using an induction clamp which surrounds an exposed line or placing the transmitter above a buried line and transmitting the signal to it. The receiver may also be used in a passive locate mode (power) to identify the presence of current carrying lines. Nonmetallic lines may also be located by snaking a sonde down accessible lines with push rods. A sonde is a small transmitter that emits a specific electromagnetic frequency which can be detected by the receiver at depths of 12 to 16-feet.

Inductive Sweep With Transmitter/Receiver



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

September 9, 2014

Tim Clinton
Fuss & O'Neill - Providence
317 Iron Horse Way, Suite 204
Providence, RI 02908

Project Location: Mary Dennison Park
Client Job Number:
Project Number: 20081389.M20
Laboratory Work Order Number: 14H1358

Enclosed are results of analyses for samples received by the laboratory on August 28, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 7

Sample Results 11

14H1358-01 11

14H1358-02 15

14H1358-03 19

14H1358-04 23

14H1358-05 28

14H1358-06 32

14H1358-07 36

14H1358-08 40

14H1358-09 44

14H1358-10 48

14H1358-11 52

14H1358-12 56

14H1358-13 61

14H1358-14 65

14H1358-15 70

14H1358-16 74

14H1358-17 79

14H1358-18 84

14H1358-19 88

14H1358-20 92

Sample Preparation Information 96

QC Data 100

Polychlorinated Biphenyls By GC/ECD 100

Table of Contents (continued)

B103913 100

B104021 101

Petroleum Hydrocarbons Analyses - EPH 103

B103860 103

B103911 105

B104373 107

Metals Analyses (Total) 112

B103933 112

B103934 114

B103936 114

B103942 114

B103995 115

B104104 116

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 118

B104092 118

B104291 118

B104292 118

Dual Column RPD Report 119

Flag/Qualifier Summary 134

Certifications 135

Chain of Custody/Sample Receipt 138

con-test® ANALYTICAL LABORATORY

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

Fuss & O'Neill - Providence
317 Iron Horse Way, Suite 204
Providence, RI 02908
ATTN: Tim Clinton

REPORT DATE: 9/9/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 20081389.M20

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14H1358

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

PROJECT LOCATION: Mary Dennison Park

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1227140827-01	14H1358-01	Soil	SS-101	MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
1227140827-02	14H1358-02	Soil	SS-102	MA DEP PAC	
				MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
1227140827-03	14H1358-03	Soil	SS-103	MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
1227140827-04	14H1358-04	Soil	SS-111	MA DEP PAC	
				MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
1227140827-05	14H1358-05	Soil	SS-113	MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
1227140827-06	14H1358-06	Soil	SS-121	MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
1227140827-07	14H1358-07	Soil	SS-126	MA DEP PAC	
				MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

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

Fuss & O'Neill - Providence
317 Iron Horse Way, Suite 204
Providence, RI 02908
ATTN: Tim Clinton

REPORT DATE: 9/9/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 20081389.M20

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14H1358

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

PROJECT LOCATION: Mary Dennison Park

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1227140827-08	14H1358-08	Soil	SS-138	MA DEP PAC	
				MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
1227140827-09	14H1358-09	Soil	SS-138D	MA DEP PAC	
				MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
1227140827-10	14H1358-10	Soil	SS-141	MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
1227140827-11	14H1358-11	Soil	SS-143	MA DEP PAC	
				MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
1227140827-12	14H1358-12	Soil	SS-154	MA DEP PAC	
				MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
1227140827-13	14H1358-13	Soil	SS-156	MA DEP PAC	
				MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
1227140827-14	14H1358-14	Soil	SS-160	MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

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

Fuss & O'Neill - Providence
317 Iron Horse Way, Suite 204
Providence, RI 02908
ATTN: Tim Clinton

REPORT DATE: 9/9/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 20081389.M20

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14H1358

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

PROJECT LOCATION: Mary Dennison Park

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1227140827-15	14H1358-15	Soil	SS-161	MA DEP PAC	
				MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
1227140827-16	14H1358-16	Soil	SS-162	MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
1227140827-17	14H1358-17	Soil	SS-163	MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
1227140827-18	14H1358-18	Soil	SS-163D	MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
1227140827-19	14H1358-19	Soil	SS-164 MS/MSD	MA DEP PAC	
				MADEP-EPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8082A	
1227140827-20	14H1358-20	Equipment Blank Water	Equip. Blank	MA DEP PAC	
				MADEP-EPH-04-1.1	
				SW-846 6010C	
				SW-846 7470A	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

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

CASE NARRATIVE SUMMARY

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

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

MADEP-EPH-04-1.1

Qualifications:

L-04

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

Analyte & Samples(s) Qualified:

C9-C18 Aliphatics
14H1358-04RE1[1227140827-04], 14H1358-10RE1[1227140827-10], 14H1358-12RE1[1227140827-12], 14H1358-14RE1[1227140827-14], 14H1358-16RE1[1227140827-16], 14H1358-17RE1[1227140827-17], 14H1358-19RE1[1227140827-19], B104373-BLK1

n-Nonane
B104373-BLK1, B104373-BS1, B104373-BSD1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

n-Decane
B104373-BSD1

MS-09

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

C19-C36 Aliphatics
14H1358-19RE1[1227140827-19], B104373-MS1, B104373-MSD1

n-Nonane
B104373-MS1, B104373-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Acenaphthylene
B104373-MSD1

Benzo(g,h,i)perylene
B104373-MSD1

C9-C18 Aliphatics
B104373-MSD1

Dibenz(a,h)anthracene
B104373-MSD1

Indeno(1,2,3-cd)pyrene
B104373-MSD1

Naphthalene
B104373-MSD1

RL-08

Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

C9-C18 Aliphatics
14H1358-01[1227140827-01]

S-03

Surrogate recovery outside of control limits due to suspected sample matrix interference.

Analyte & Samples(s) Qualified:

o-Terphenyl (OTP)
14H1358-12RE1[1227140827-12], 14H1358-16RE1[1227140827-16], 14H1358-17RE1[1227140827-17]

S-19

Surrogate recovery is outside of control limits, matrix interference suspected. Reanalysis yielded similar surrogate non-conformance.

Analyte & Samples(s) Qualified:

Chlorooctadecane (COD)
14H1358-04[1227140827-04], 14H1358-04RE1[1227140827-04], 14H1358-12[1227140827-12], 14H1358-12RE1[1227140827-12], 14H1358-14[1227140827-14], 14H1358-14RE1[1227140827-14], 14H1358-16[1227140827-16], 14H1358-16RE1[1227140827-16], 14H1358-17[1227140827-17], 14H1358-17RE1[1227140827-17]

o-Terphenyl (OTP)
14H1358-04[1227140827-04], 14H1358-04RE1[1227140827-04], 14H1358-14[1227140827-14], 14H1358-14RE1[1227140827-14]

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

S-26

Surrogate outside of control limits.

Analyte & Samples(s) Qualified:

2-Fluorobiphenyl
14H1358-16[1227140827-16]

Z-01

Surrogate recovery is outside of control limits in BS/MS spiked sample.

Analyte & Samples(s) Qualified:

Chlorooctadecane (COD)
B104373-MSD1

o-Terphenyl (OTP)
B104373-MSD1

SW-846 6010C

Qualifications:

MS-09

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Antimony
14H1358-19[1227140827-19], B103933-MS1, B103933-MSD1

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Barium
14H1358-19[1227140827-19], B103933-MS1, B103933-MSD1

Lead
14H1358-19[1227140827-19], B103933-MS1, B103933-MSD1

Zinc
14H1358-19[1227140827-19], B103933-MS1, B103933-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Chromium
B103933-MSD1

R-02

Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

Analyte & Samples(s) Qualified:

Chromium
14H1358-19[1227140827-19], B103933-DUP1

SW-846 8082A

Qualifications:

R-05

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

Analyte & Samples(s) Qualified:

Aroclor-1016 [2C]
14H1358-20[1227140827-20], B104021-BLK1, B104021-BS1, B104021-BSD1

Aroclor-1260
14H1358-20[1227140827-20], B104021-BLK1, B104021-BS1, B104021-BSD1

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

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C 11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

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

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-101
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-01
Sampled: 8/27/2014 07:45

Sample ID: 14H1358-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:00	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:00	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:00	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:00	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:00	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:00	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:00	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:00	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:00	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.2	30-150		8/30/14 15:00
Decachlorobiphenyl [2]	98.8	30-150		8/30/14 15:00
Tetrachloro-m-xylene [1]	104	30-150		8/30/14 15:00
Tetrachloro-m-xylene [2]	107	30-150		8/30/14 15:00

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-101 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-01 | Sampled: 8/27/2014 07:45

Sample ID: 14H1358-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	53	mg/Kg dry	5	RL-08	MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
C19-C36 Aliphatics	220	53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
Unadjusted C11-C22 Aromatics	260	53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
C11-C22 Aromatics	260	53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
Acenaphthene	ND	0.53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
Acenaphthylene	ND	0.53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
Anthracene	ND	0.53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
Benzo(a)anthracene	ND	0.53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
Benzo(a)pyrene	ND	0.53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
Benzo(b)fluoranthene	ND	0.53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
Benzo(g,h,i)perylene	ND	0.53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
Benzo(k)fluoranthene	ND	0.53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
Chrysene	ND	0.53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
Dibenz(a,h)anthracene	ND	0.53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
Fluoranthene	ND	0.53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
Fluorene	ND	0.53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
Indeno(1,2,3-cd)pyrene	ND	0.53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
2-Methylnaphthalene	ND	0.53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
Naphthalene	ND	0.53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
Phenanthrene	ND	0.53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS
Pyrene	ND	0.53	mg/Kg dry	5		MADEP-EPH-04-1.1	8/29/14	9/5/14 5:03	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	54.1	40-140		9/5/14 5:03
o-Terphenyl (OTP)	65.0	40-140		9/5/14 5:03
2-Bromonaphthalene	98.9	40-140		9/5/14 5:03
2-Fluorobiphenyl	113	40-140		9/5/14 5:03

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-101
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-01
Sampled: 8/27/2014 07:45

Sample ID: 14H1358-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C	9/2/14	9/3/14 15:11	OP
Arsenic	34	2.6	mg/Kg dry	1		SW-846 6010C	9/2/14	9/3/14 15:11	OP
Barium	42	2.6	mg/Kg dry	1		SW-846 6010C	9/2/14	9/3/14 15:11	OP
Beryllium	1.1	0.26	mg/Kg dry	1		SW-846 6010C	9/2/14	9/3/14 15:11	OP
Cadmium	1.3	0.26	mg/Kg dry	1		SW-846 6010C	9/2/14	9/3/14 15:11	OP
Chromium	18	0.53	mg/Kg dry	1		SW-846 6010C	9/2/14	9/3/14 15:11	OP
Lead	23	0.79	mg/Kg dry	1		SW-846 6010C	9/2/14	9/3/14 15:11	OP
Mercury	0.059	0.025	mg/Kg dry	1		SW-846 7471B	9/3/14	9/4/14 11:06	JMP
Nickel	26	0.53	mg/Kg dry	1		SW-846 6010C	9/2/14	9/3/14 15:11	OP
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010C	9/2/14	9/3/14 15:11	OP
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010C	9/2/14	9/3/14 15:11	OP
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C	9/2/14	9/3/14 15:11	OP
Vanadium	33	1.1	mg/Kg dry	1		SW-846 6010C	9/2/14	9/3/14 15:11	OP
Zinc	46	1.1	mg/Kg dry	1		SW-846 6010C	9/2/14	9/3/14 15:11	OP

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

Project Location: Mary Dennison Park
Sample Description: SS-101
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-01
Sampled: 8/27/2014 07:45
Sample ID: 14H1358-01
Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.5		% Wt	1		SM 2540G	9/3/14	9/4/14 8:01	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-102
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-02
Sampled: 8/27/2014 07:48

Sample ID: 14H1358-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:12	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:12	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:12	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:12	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:12	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:12	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:12	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:12	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:12	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.4	30-150		8/30/14 15:12
Decachlorobiphenyl [2]	95.5	30-150		8/30/14 15:12
Tetrachloro-m-xylene [1]	97.0	30-150		8/30/14 15:12
Tetrachloro-m-xylene [2]	101	30-150		8/30/14 15:12

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-102 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-02 | Sampled: 8/27/2014 07:48

Sample ID: 14H1358-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
Unadjusted C11-C22 Aromatics	23	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
C11-C22 Aromatics	21	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
Benzo(a)anthracene	0.16	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
Benzo(a)pyrene	0.18	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
Benzo(b)fluoranthene	0.35	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
Benzo(g,h,i)perylene	0.13	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
Benzo(k)fluoranthene	0.12	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
Chrysene	0.22	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
Fluoranthene	0.29	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
Indeno(1,2,3-cd)pyrene	0.14	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
Phenanthrene	0.17	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS
Pyrene	0.33	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 5:46	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	68.3	40-140		9/6/14 5:46
o-Terphenyl (OTP)	84.5	40-140		9/6/14 5:46
2-Bromonaphthalene	115	40-140		9/6/14 5:46
2-Fluorobiphenyl	130	40-140		9/6/14 5:46

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-102
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-02
Sampled: 8/27/2014 07:48

Sample ID: 14H1358-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	26	2.8	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:05	OP
Arsenic	3.4	2.8	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:05	OP
Barium	27	2.8	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:05	OP
Beryllium	0.30	0.28	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:05	OP
Cadmium	0.84	0.28	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:05	OP
Chromium	54	0.56	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:05	OP
Lead	100	0.84	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:05	OP
Mercury	0.039	0.028	mg/Kg dry	1		SW-846 7471B	9/3/14	9/4/14 11:08	JMP
Nickel	100	0.56	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:05	OP
Selenium	ND	5.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:05	OP
Silver	ND	0.56	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:05	OP
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:05	OP
Vanadium	17	1.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:05	OP
Zinc	47	1.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:05	OP

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-102
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-02
Sampled: 8/27/2014 07:48

Sample ID: 14H1358-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide (PAC)	ND	0.38	mg/Kg dry	1		MA DEP PAC	9/4/14	9/4/14 15:15	VAK
% Solids	89.6		% Wt	1		SM 2540G	9/3/14	9/4/14 8:01	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-103
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-03
Sampled: 8/27/2014 08:05

Sample ID: 14H1358-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:25	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:25	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:25	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:25	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:25	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:25	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:25	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:25	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:25	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.1	30-150		8/30/14 15:25
Decachlorobiphenyl [2]	96.5	30-150		8/30/14 15:25
Tetrachloro-m-xylene [1]	95.2	30-150		8/30/14 15:25
Tetrachloro-m-xylene [2]	94.5	30-150		8/30/14 15:25

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-103 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-03 | Sampled: 8/27/2014 08:05

Sample ID: 14H1358-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
C19-C36 Aliphatics	17	10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
Unadjusted C11-C22 Aromatics	38	10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
C11-C22 Aromatics	30	10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
Acenaphthene	0.12	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
Acenaphthylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
Anthracene	0.17	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
Benzo(a)anthracene	0.54	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
Benzo(a)pyrene	0.50	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
Benzo(b)fluoranthene	0.98	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
Benzo(g,h,i)perylene	0.39	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
Benzo(k)fluoranthene	0.32	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
Chrysene	0.74	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
Dibenz(a,h)anthracene	0.13	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
Fluoranthene	1.2	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
Fluorene	0.12	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
Indeno(1,2,3-cd)pyrene	0.45	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
Naphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
Phenanthrene	0.85	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS
Pyrene	1.1	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:06	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	53.3	40-140		9/6/14 6:06
o-Terphenyl (OTP)	65.8	40-140		9/6/14 6:06
2-Bromonaphthalene	100	40-140		9/6/14 6:06
2-Fluorobiphenyl	116	40-140		9/6/14 6:06

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-103
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-03
Sampled: 8/27/2014 08:05

Sample ID: 14H1358-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:10	OP
Arsenic	3.7	2.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:10	OP
Barium	70	2.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:10	OP
Beryllium	0.34	0.26	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:10	OP
Cadmium	1.1	0.26	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:10	OP
Chromium	19	0.52	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:10	OP
Lead	130	0.78	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:10	OP
Mercury	0.17	0.026	mg/Kg dry	1		SW-846 7471B	9/3/14	9/4/14 11:09	JMP
Nickel	18	0.52	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:10	OP
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:10	OP
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:10	OP
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:10	OP
Vanadium	21	1.0	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:10	OP
Zinc	170	1.0	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:10	OP

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

Project Location: Mary Dennison Park
Sample Description: SS-103
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-03
Sampled: 8/27/2014 08:05
Sample ID: 14H1358-03
Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.3		% Wt	1		SM 2540G	9/3/14	9/4/14 8:01	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-111
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-04
Sampled: 8/27/2014 09:10

Sample ID: 14H1358-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:37	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:37	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:37	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:37	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:37	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:37	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:37	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:37	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:37	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	100	30-150		8/30/14 15:37
Decachlorobiphenyl [2]	101	30-150		8/30/14 15:37
Tetrachloro-m-xylene [1]	104	30-150		8/30/14 15:37
Tetrachloro-m-xylene [2]	107	30-150		8/30/14 15:37

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-111 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-04 | Sampled: 8/27/2014 09:10

Sample ID: 14H1358-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
C19-C36 Aliphatics	13	12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
Unadjusted C11-C22 Aromatics	21	12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
Unadjusted C11-C22 Aromatics	21	12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
C11-C22 Aromatics	21	12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
C11-C22 Aromatics	20	12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
Fluoranthene	0.16	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
Fluoranthene	0.17	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
Phenanthrene	0.16	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
Phenanthrene	0.12	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS
Pyrene	0.20	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 6:27	SCS
Pyrene	0.17	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 13:53	SCS

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	**25.4**	*	40-140	S-19	9/6/14 6:27

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-111 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-04 | Sampled: 8/27/2014 09:10

Sample ID: 14H1358-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**	**Recovery Limits**		**Flag/Qual**				
Chlorooctadecane (COD)		**28.9** *	40-140		S-19			9/9/14 13:53	
o-Terphenyl (OTP)		**31.1** *	40-140		S-19			9/6/14 6:27	
o-Terphenyl (OTP)		**34.0** *	40-140		S-19			9/9/14 13:53	
2-Bromonaphthalene		94.2	40-140					9/6/14 6:27	
2-Bromonaphthalene		52.3	40-140					9/9/14 13:53	
2-Fluorobiphenyl		111	40-140					9/6/14 6:27	
2-Fluorobiphenyl		58.4	40-140					9/9/14 13:53	

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

Project Location: Mary Dennison Park
Sample Description: SS-111
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-04
Sampled: 8/27/2014 09:10
Sample ID: 14H1358-04
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.9	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:15	OP
Arsenic	5.7	2.9	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:15	OP
Barium	38	2.9	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:15	OP
Beryllium	0.54	0.29	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:15	OP
Cadmium	1.0	0.29	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:15	OP
Chromium	16	0.58	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:15	OP
Lead	42	0.87	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:15	OP
Mercury	0.092	0.030	mg/Kg dry	1		SW-846 7471B	9/3/14	9/4/14 11:10	JMP
Nickel	9.6	0.58	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:15	OP
Selenium	ND	5.8	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:15	OP
Silver	ND	0.58	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:15	OP
Thallium	ND	2.9	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:15	OP
Vanadium	23	1.2	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:15	OP
Zinc	39	1.2	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:15	OP

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

Project Location: Mary Dennison Park
Sample Description: SS-111
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-04
Sampled: 8/27/2014 09:10
Sample ID: 14H1358-04
Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide (PAC)	ND	0.41	mg/Kg dry	1		MA DEP PAC	9/4/14	9/4/14 15:15	VAK
% Solids	82.8		% Wt	1		SM 2540G	9/3/14	9/4/14 8:01	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-113 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-05 | Sampled: 8/27/2014 09:40

Sample ID: 14H1358-05

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:49	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:49	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:49	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:49	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:49	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:49	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:49	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:49	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 15:49	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.3	30-150		8/30/14 15:49
Decachlorobiphenyl [2]	102	30-150		8/30/14 15:49
Tetrachloro-m-xylene [1]	97.6	30-150		8/30/14 15:49
Tetrachloro-m-xylene [2]	98.7	30-150		8/30/14 15:49

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-113 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-05 | Sampled: 8/27/2014 09:40

Sample ID: 14H1358-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	12	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
C19-C36 Aliphatics	30	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
Unadjusted C11-C22 Aromatics	90	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
C11-C22 Aromatics	71	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
Acenaphthene	0.20	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
Acenaphthylene	0.17	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
Anthracene	0.42	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
Benzo(a)anthracene	1.4	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
Benzo(a)pyrene	1.4	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
Benzo(b)fluoranthene	2.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
Benzo(g,h,i)perylene	0.89	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
Benzo(k)fluoranthene	0.67	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
Chrysene	1.8	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
Dibenz(a,h)anthracene	0.28	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
Fluoranthene	3.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
Fluorene	0.22	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
Indeno(1,2,3-cd)pyrene	1.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
Naphthalene	0.13	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
Phenanthrene	2.0	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS
Pyrene	3.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:30	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	53.5	40-140		9/6/14 8:30
o-Terphenyl (OTP)	65.4	40-140		9/6/14 8:30
2-Bromonaphthalene	101	40-140		9/6/14 8:30
2-Fluorobiphenyl	115	40-140		9/6/14 8:30

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-113
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-05
Sampled: 8/27/2014 09:40

Sample ID: 14H1358-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	4.2	2.8	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:20	OP
Arsenic	12	2.8	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:20	OP
Barium	450	2.8	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:20	OP
Beryllium	0.43	0.28	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:20	OP
Cadmium	3.5	0.28	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:20	OP
Chromium	37	0.57	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:20	OP
Lead	800	0.85	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:20	OP
Mercury	0.64	0.14	mg/Kg dry	5		SW-846 7471B	9/3/14	9/4/14 11:38	JMP
Nickel	20	0.57	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:20	OP
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:20	OP
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:20	OP
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:20	OP
Vanadium	24	1.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:20	OP
Zinc	850	1.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:20	OP

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

Project Location: Mary Dennison Park
Sample Description: SS-113
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-05
Sampled: 8/27/2014 09:40
Sample ID: 14H1358-05
Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.7		% Wt	1		SM 2540G	9/3/14	9/4/14 8:01	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-121 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-06 | Sampled: 8/27/2014 10:30

Sample ID: 14H1358-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:02	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:02	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:02	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:02	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:02	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:02	JMB
Aroclor-1260 [1]	0.13	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:02	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:02	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:02	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.1	30-150		8/30/14 16:02
Decachlorobiphenyl [2]	103	30-150		8/30/14 16:02
Tetrachloro-m-xylene [1]	100	30-150		8/30/14 16:02
Tetrachloro-m-xylene [2]	102	30-150		8/30/14 16:02

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-121 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-06 | Sampled: 8/27/2014 10:30

Sample ID: 14H1358-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
C19-C36 Aliphatics	31	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
Unadjusted C11-C22 Aromatics	110	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
C11-C22 Aromatics	84	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
Acenaphthene	0.12	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
Acenaphthylene	0.28	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
Anthracene	0.45	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
Benzo(a)anthracene	1.6	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
Benzo(a)pyrene	1.7	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
Benzo(b)fluoranthene	2.6	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
Benzo(g,h,i)perylene	1.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
Benzo(k)fluoranthene	0.93	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
Chrysene	2.3	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
Dibenz(a,h)anthracene	0.36	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
Fluoranthene	3.9	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
Fluorene	0.20	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
Indeno(1,2,3-cd)pyrene	1.4	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
Phenanthrene	2.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS
Pyrene	3.7	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 8:51	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	56.4	40-140		9/6/14 8:51
o-Terphenyl (OTP)	73.6	40-140		9/6/14 8:51
2-Bromonaphthalene	110	40-140		9/6/14 8:51
2-Fluorobiphenyl	122	40-140		9/6/14 8:51

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-121
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-06
Sampled: 8/27/2014 10:30

Sample ID: 14H1358-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:25	OP
Arsenic	6.6	2.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:25	OP
Barium	110	2.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:25	OP
Beryllium	0.53	0.26	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:25	OP
Cadmium	1.3	0.26	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:25	OP
Chromium	15	0.52	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:25	OP
Lead	370	0.79	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:25	OP
Mercury	0.19	0.025	mg/Kg dry	1		SW-846 7471B	8/30/14	9/2/14 12:45	JMP
Nickel	11	0.52	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:25	OP
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:25	OP
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:25	OP
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:25	OP
Vanadium	24	1.0	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:25	OP
Zinc	210	1.0	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:25	OP

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

Project Location: Mary Dennison Park
Sample Description: SS-121
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-06
Sampled: 8/27/2014 10:30
Sample ID: 14H1358-06
Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.4		% Wt	1		SM 2540G	9/3/14	9/4/14 8:01	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-126
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-07
Sampled: 8/27/2014 12:15

Sample ID: 14H1358-07

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:14	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:14	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:14	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:14	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:14	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:14	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:14	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:14	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:14	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		8/30/14 16:14
Decachlorobiphenyl [2]	104	30-150		8/30/14 16:14
Tetrachloro-m-xylene [1]	106	30-150		8/30/14 16:14
Tetrachloro-m-xylene [2]	110	30-150		8/30/14 16:14

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-126 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-07 | Sampled: 8/27/2014 12:15

Sample ID: 14H1358-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	15	12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
C19-C36 Aliphatics	28	12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
Unadjusted C11-C22 Aromatics	80	12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
C11-C22 Aromatics	70	12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
Acenaphthylene	0.15	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
Anthracene	0.24	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
Benzo(a)anthracene	0.64	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
Benzo(a)pyrene	0.74	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
Benzo(b)fluoranthene	1.1	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
Benzo(g,h,i)perylene	0.54	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
Benzo(k)fluoranthene	0.38	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
Chrysene	1.0	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
Dibenz(a,h)anthracene	0.16	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
Fluoranthene	1.4	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
Fluorene	0.14	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
Indeno(1,2,3-cd)pyrene	0.57	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
Phenanthrene	0.97	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS
Pyrene	1.6	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:11	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	63.9	40-140		9/6/14 9:11
o-Terphenyl (OTP)	78.2	40-140		9/6/14 9:11
2-Bromonaphthalene	40.6	40-140		9/6/14 9:11
2-Fluorobiphenyl	107	40-140		9/6/14 9:11

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park Sample Description: SS-126 Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-07 Sampled: 8/27/2014 12:15

Sample ID: 14H1358-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	4.4	3.0	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:46	OP
Arsenic	8.3	3.0	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:46	OP
Barium	190	3.0	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:46	OP
Beryllium	0.51	0.30	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:46	OP
Cadmium	1.5	0.30	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:46	OP
Chromium	23	0.59	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:46	OP
Lead	310	0.89	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:46	OP
Mercury	0.23	0.029	mg/Kg dry	1		SW-846 7471B	8/30/14	9/2/14 12:46	JMP
Nickel	12	0.59	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:46	OP
Selenium	ND	5.9	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:46	OP
Silver	ND	0.59	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:46	OP
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:46	OP
Vanadium	23	1.2	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:46	OP
Zinc	440	1.2	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:46	OP

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

Project Location: Mary Dennison Park
Sample Description: SS-126
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-07
Sampled: 8/27/2014 12:15
Sample ID: 14H1358-07
Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide (PAC)	ND	0.53	mg/Kg dry	1		MA DEP PAC	9/4/14	9/4/14 15:15	VAK
% Solids	81.3		% Wt	1		SM 2540G	9/3/14	9/4/14 8:01	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-138 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-08 | Sampled: 8/27/2014 13:50

Sample ID: 14H1358-08

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:26	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:26	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:26	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:26	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:26	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:26	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:26	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:26	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.7	30-150		8/30/14 16:26
Decachlorobiphenyl [2]	86.8	30-150		8/30/14 16:26
Tetrachloro-m-xylene [1]	83.8	30-150		8/30/14 16:26
Tetrachloro-m-xylene [2]	85.7	30-150		8/30/14 16:26

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-138 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-08 | Sampled: 8/27/2014 13:50

Sample ID: 14H1358-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	38	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
C19-C36 Aliphatics	19	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
Unadjusted C11-C22 Aromatics	170	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
C11-C22 Aromatics	160	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
Acenaphthylene	0.40	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
Anthracene	0.39	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
Benzo(a)anthracene	0.41	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
Benzo(a)pyrene	0.45	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
Benzo(b)fluoranthene	0.98	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
Benzo(g,h,i)perylene	0.23	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
Benzo(k)fluoranthene	0.28	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
Chrysene	1.3	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
Dibenz(a,h)anthracene	0.12	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
Fluoranthene	1.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
Fluorene	0.20	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
Indeno(1,2,3-cd)pyrene	0.32	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
2-Methylnaphthalene	0.18	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
Naphthalene	0.47	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
Phenanthrene	1.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS
Pyrene	1.7	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:32	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	56.6	40-140		9/6/14 9:32
o-Terphenyl (OTP)	74.6	40-140		9/6/14 9:32
2-Bromonaphthalene	100	40-140		9/6/14 9:32
2-Fluorobiphenyl	116	40-140		9/6/14 9:32

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-138
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-08
Sampled: 8/27/2014 13:50

Sample ID: 14H1358-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.7	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:51	OP
Arsenic	7.9	2.7	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:51	OP
Barium	110	2.7	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:51	OP
Beryllium	0.68	0.27	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:51	OP
Cadmium	0.93	0.27	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:51	OP
Chromium	8.3	0.53	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:51	OP
Lead	64	0.80	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:51	OP
Mercury	0.075	0.026	mg/Kg dry	1		SW-846 7471B	8/30/14	9/2/14 12:48	JMP
Nickel	8.5	0.53	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:51	OP
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:51	OP
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:51	OP
Thallium	ND	2.7	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:51	OP
Vanadium	15	1.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:51	OP
Zinc	110	1.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:51	OP

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

Project Location: Mary Dennison Park
Sample Description: SS-138
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-08
Sampled: 8/27/2014 13:50
Sample ID: 14H1358-08
Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide (PAC)	ND	0.50	mg/Kg dry	1		MA DEP PAC	9/4/14	9/4/14 15:15	VAK
% Solids	92.1		% Wt	1		SM 2540G	9/3/14	9/4/14 8:01	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-138D | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-09 | Sampled: 8/27/2014 13:50

Sample ID: 14H1358-09

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:39	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:39	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:39	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:39	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:39	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:39	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:39	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:39	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 16:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.2	30-150		8/30/14 16:39
Decachlorobiphenyl [2]	83.4	30-150		8/30/14 16:39
Tetrachloro-m-xylene [1]	81.0	30-150		8/30/14 16:39
Tetrachloro-m-xylene [2]	83.0	30-150		8/30/14 16:39

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-138D | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-09 | Sampled: 8/27/2014 13:50

Sample ID: 14H1358-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	32	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
C19-C36 Aliphatics	13	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
Unadjusted C11-C22 Aromatics	130	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
C11-C22 Aromatics	130	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
Acenaphthylene	0.28	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
Anthracene	0.27	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
Benzo(a)anthracene	0.43	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
Benzo(a)pyrene	0.39	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
Benzo(b)fluoranthene	0.93	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
Benzo(g,h,i)perylene	0.21	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
Benzo(k)fluoranthene	0.28	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
Chrysene	0.81	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
Fluoranthene	1.0	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
Fluorene	0.17	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
Indeno(1,2,3-cd)pyrene	0.26	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
2-Methylnaphthalene	0.15	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
Naphthalene	0.27	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
Phenanthrene	1.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS
Pyrene	1.5	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 9:52	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	47.5	40-140		9/6/14 9:52
o-Terphenyl (OTP)	61.2	40-140		9/6/14 9:52
2-Bromonaphthalene	96.5	40-140		9/6/14 9:52
2-Fluorobiphenyl	115	40-140		9/6/14 9:52

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-138D
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-09
Sampled: 8/27/2014 13:50

Sample ID: 14H1358-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.7	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:55	OP
Arsenic	7.2	2.7	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:55	OP
Barium	120	2.7	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:55	OP
Beryllium	0.65	0.27	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:55	OP
Cadmium	0.94	0.27	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:55	OP
Chromium	7.4	0.55	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:55	OP
Lead	74	0.82	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:55	OP
Mercury	0.10	0.026	mg/Kg dry	1		SW-846 7471B	8/30/14	9/2/14 12:49	JMP
Nickel	8.3	0.55	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:55	OP
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:55	OP
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:55	OP
Thallium	ND	2.7	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:55	OP
Vanadium	15	1.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:55	OP
Zinc	100	1.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 20:55	OP

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

Project Location: Mary Dennison Park
Sample Description: SS-138D
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-09
Sampled: 8/27/2014 13:50
Sample ID: 14H1358-09
Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide (PAC)	ND	0.50	mg/Kg dry	1		MA DEP PAC	9/4/14	9/4/14 15:15	VAK
% Solids	90.4		% Wt	1		SM 2540G	9/3/14	9/4/14 8:01	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-141
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-10
Sampled: 8/27/2014 15:45

Sample ID: 14H1358-10

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:15	JMB
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:15	JMB
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:15	JMB
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:15	JMB
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:15	JMB
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:15	JMB
Aroclor-1260 [1]	0.42	0.17	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:15	JMB
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:15	JMB
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	137	30-150		8/30/14 17:15
Decachlorobiphenyl [2]	143	30-150		8/30/14 17:15
Tetrachloro-m-xylene [1]	76.2	30-150		8/30/14 17:15
Tetrachloro-m-xylene [2]	78.9	30-150		8/30/14 17:15

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-141 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-10 | Sampled: 8/27/2014 15:45

Sample ID: 14H1358-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	43	34	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
C19-C36 Aliphatics	300	34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
Unadjusted C11-C22 Aromatics	290	34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
C11-C22 Aromatics	280	34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
Acenaphthene	ND	0.34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
Acenaphthylene	0.45	0.34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
Anthracene	0.41	0.34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
Benzo(a)anthracene	1.1	0.34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
Benzo(a)pyrene	1.3	0.34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
Benzo(b)fluoranthene	1.8	0.34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
Benzo(g,h,i)perylene	1.1	0.34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
Benzo(k)fluoranthene	0.59	0.34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
Chrysene	1.7	0.34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
Dibenz(a,h)anthracene	ND	0.34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
Fluoranthene	2.5	0.34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
Fluorene	0.35	0.34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
Indeno(1,2,3-cd)pyrene	1.1	0.34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
2-Methylnaphthalene	ND	0.34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
Naphthalene	ND	0.34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
Phenanthrene	1.9	0.34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS
Pyrene	3.2	0.34	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:14	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	45.3	40-140		9/9/14 14:14
o-Terphenyl (OTP)	49.2	40-140		9/9/14 14:14
2-Bromonaphthalene	66.8	40-140		9/9/14 14:14
2-Fluorobiphenyl	76.1	40-140		9/9/14 14:14

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-141
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-10
Sampled: 8/27/2014 15:45

Sample ID: 14H1358-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	4.2	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:00	OP
Arsenic	7.2	4.2	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:00	OP
Barium	940	4.2	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:00	OP
Beryllium	0.45	0.42	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:00	OP
Cadmium	21	0.42	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:00	OP
Chromium	74	0.85	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:00	OP
Lead	510	1.3	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:00	OP
Mercury	0.20	0.040	mg/Kg dry	1		SW-846 7471B	8/30/14	9/2/14 12:50	JMP
Nickel	18	0.85	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:00	OP
Selenium	ND	8.5	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:00	OP
Silver	ND	0.85	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:00	OP
Thallium	ND	4.2	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:00	OP
Vanadium	32	1.7	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:00	OP
Zinc	1700	1.7	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:00	OP

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

Project Location: Mary Dennison Park
Sample Description: SS-141
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-10
Sampled: 8/27/2014 15:45
Sample ID: 14H1358-10
Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.4		% Wt	1		SM 2540G	9/3/14	9/4/14 8:01	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-143 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-11 | Sampled: 8/27/2014 12:55

Sample ID: 14H1358-11

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:28	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:28	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:28	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:28	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:28	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:28	JMB
Aroclor-1260 [1]	0.23	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:28	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:28	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		8/30/14 17:28
Decachlorobiphenyl [2]	103	30-150		8/30/14 17:28
Tetrachloro-m-xylene [1]	99.0	30-150		8/30/14 17:28
Tetrachloro-m-xylene [2]	101	30-150		8/30/14 17:28

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-143 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-11 | Sampled: 8/27/2014 12:55

Sample ID: 14H1358-11

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	14	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
C19-C36 Aliphatics	30	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
Unadjusted C11-C22 Aromatics	140	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
C11-C22 Aromatics	110	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
Acenaphthene	0.41	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
Acenaphthylene	0.40	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
Anthracene	0.51	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
Benzo(a)anthracene	1.4	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
Benzo(a)pyrene	1.4	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
Benzo(b)fluoranthene	2.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
Benzo(g,h,i)perylene	0.78	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
Benzo(k)fluoranthene	0.64	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
Chrysene	2.3	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
Dibenz(a,h)anthracene	0.31	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
Fluoranthene	3.9	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
Fluorene	0.55	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
Indeno(1,2,3-cd)pyrene	0.94	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
2-Methylnaphthalene	0.28	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
Naphthalene	0.19	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
Phenanthrene	4.5	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS
Pyrene	4.7	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:33	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	52.9	40-140		9/6/14 10:33
o-Terphenyl (OTP)	69.8	40-140		9/6/14 10:33
2-Bromonaphthalene	102	40-140		9/6/14 10:33
2-Fluorobiphenyl	115	40-140		9/6/14 10:33

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-143
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-11
Sampled: 8/27/2014 12:55

Sample ID: 14H1358-11

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	2.8	2.5	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:05	OP
Arsenic	4.9	2.5	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:05	OP
Barium	270	2.5	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:05	OP
Beryllium	0.36	0.25	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:05	OP
Cadmium	1.4	0.25	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:05	OP
Chromium	18	0.51	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:05	OP
Lead	380	0.76	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:05	OP
Mercury	0.40	0.026	mg/Kg dry	1		SW-846 7471B	8/30/14	9/2/14 12:52	JMP
Nickel	10	0.51	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:05	OP
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:05	OP
Silver	ND	0.51	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:05	OP
Thallium	ND	2.5	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:05	OP
Vanadium	20	1.0	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:05	OP
Zinc	390	1.0	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:05	OP

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

Project Location: Mary Dennison Park
Sample Description: SS-143
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-11
Sampled: 8/27/2014 12:55
Sample ID: 14H1358-11
Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide (PAC)	0.37	0.35	mg/Kg dry	1		MA DEP PAC	9/4/14	9/4/14 15:15	VAK
% Solids	93.5		% Wt	1		SM 2540G	9/3/14	9/4/14 8:01	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-154
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-12
Sampled: 8/27/2014 15:50

Sample ID: 14H1358-12

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:40	JMB
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:40	JMB
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:40	JMB
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:40	JMB
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:40	JMB
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:40	JMB
Aroclor-1260 [2]	0.30	0.16	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:40	JMB
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:40	JMB
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:40	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.8	30-150		8/30/14 17:40
Decachlorobiphenyl [2]	89.3	30-150		8/30/14 17:40
Tetrachloro-m-xylene [1]	71.4	30-150		8/30/14 17:40
Tetrachloro-m-xylene [2]	73.2	30-150		8/30/14 17:40

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-154
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-12
Sampled: 8/27/2014 15:50
Sample ID: 14H1358-12
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	35	32	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
C9-C18 Aliphatics	24	16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
C19-C36 Aliphatics	250	32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
C19-C36 Aliphatics	240	16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
Unadjusted C11-C22 Aromatics	200	32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
Unadjusted C11-C22 Aromatics	230	16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
C11-C22 Aromatics	180	32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
C11-C22 Aromatics	200	16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
Acenaphthene	ND	0.32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
Acenaphthene	0.27	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
Acenaphthylene	ND	0.32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
Acenaphthylene	0.21	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
Anthracene	0.40	0.32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
Anthracene	0.53	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
Benzo(a)anthracene	1.9	0.32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
Benzo(a)anthracene	2.0	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
Benzo(a)pyrene	2.0	0.32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
Benzo(a)pyrene	2.0	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
Benzo(b)fluoranthene	3.3	0.32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
Benzo(b)fluoranthene	3.3	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
Benzo(g,h,i)perylene	1.4	0.32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
Benzo(g,h,i)perylene	1.4	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
Benzo(k)fluoranthene	1.1	0.32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
Benzo(k)fluoranthene	1.2	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
Chrysene	2.6	0.32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
Chrysene	2.8	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
Dibenz(a,h)anthracene	0.48	0.32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
Dibenz(a,h)anthracene	0.48	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
Fluoranthene	4.5	0.32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
Fluoranthene	4.8	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
Fluorene	ND	0.32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
Fluorene	0.27	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
Indeno(1,2,3-cd)pyrene	1.6	0.32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
Indeno(1,2,3-cd)pyrene	1.7	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
2-Methylnaphthalene	ND	0.32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
2-Methylnaphthalene	ND	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
Naphthalene	ND	0.32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
Naphthalene	0.36	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
Phenanthrene	2.1	0.32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
Phenanthrene	2.4	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS
Pyrene	4.2	0.32	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:34	SCS
Pyrene	4.8	0.16	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 10:54	SCS

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	**30.6**	*	40-140	S-19	9/9/14 14:34

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-154 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-12 | Sampled: 8/27/2014 15:50

Sample ID: 14H1358-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**	**Recovery Limits**		**Flag/Qual**				
Chlorooctadecane (COD)		**36.4** *	40-140		S-19			9/6/14 10:54	
o-Terphenyl (OTP)		**34.0** *	40-140		S-03			9/9/14 14:34	
o-Terphenyl (OTP)		41.8	40-140					9/6/14 10:54	
2-Bromonaphthalene		72.6	40-140					9/9/14 14:34	
2-Bromonaphthalene		111	40-140					9/6/14 10:54	
2-Fluorobiphenyl		81.6	40-140					9/9/14 14:34	
2-Fluorobiphenyl		129	40-140					9/6/14 10:54	

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-154
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-12
Sampled: 8/27/2014 15:50

Sample ID: 14H1358-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	4.0	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:10	OP
Arsenic	9.9	4.0	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:10	OP
Barium	370	4.0	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:10	OP
Beryllium	0.52	0.40	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:10	OP
Cadmium	5.2	0.40	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:10	OP
Chromium	52	0.79	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:10	OP
Lead	560	1.2	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:10	OP
Mercury	0.33	0.038	mg/Kg dry	1		SW-846 7471B	8/30/14	9/2/14 12:53	JMP
Nickel	24	0.79	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:10	OP
Selenium	ND	7.9	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:10	OP
Silver	ND	0.79	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:10	OP
Thallium	ND	4.0	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:10	OP
Vanadium	54	1.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:10	OP
Zinc	1500	1.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:10	OP

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

Project Location: Mary Dennison Park
Sample Description: SS-154
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-12
Sampled: 8/27/2014 15:50
Sample ID: 14H1358-12
Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide (PAC)	0.75	0.67	mg/Kg dry	1		MA DEP PAC	9/4/14	9/4/14 15:15	VAK
% Solids	62.3		% Wt	1		SM 2540G	9/3/14	9/4/14 8:01	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-156
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-13
Sampled: 8/27/2014 15:00

Sample ID: 14H1358-13

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:52	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:52	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:52	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:52	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:52	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:52	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:52	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:52	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 17:52	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.1	30-150		8/30/14 17:52
Decachlorobiphenyl [2]	96.8	30-150		8/30/14 17:52
Tetrachloro-m-xylene [1]	100	30-150		8/30/14 17:52
Tetrachloro-m-xylene [2]	103	30-150		8/30/14 17:52

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-156 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-13 | Sampled: 8/27/2014 15:00

Sample ID: 14H1358-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
C19-C36 Aliphatics	24	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
Unadjusted C11-C22 Aromatics	37	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
C11-C22 Aromatics	36	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
Fluoranthene	0.25	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
Phenanthrene	0.20	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS
Pyrene	0.31	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:15	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	53.2	40-140		9/6/14 11:15
o-Terphenyl (OTP)	67.6	40-140		9/6/14 11:15
2-Bromonaphthalene	110	40-140		9/6/14 11:15
2-Fluorobiphenyl	128	40-140		9/6/14 11:15

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-156
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-13
Sampled: 8/27/2014 15:00

Sample ID: 14H1358-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.7	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:15	OP
Arsenic	3.8	2.7	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:15	OP
Barium	32	2.7	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:15	OP
Beryllium	0.37	0.27	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:15	OP
Cadmium	0.80	0.27	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:15	OP
Chromium	14	0.54	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:15	OP
Lead	20	0.80	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:15	OP
Mercury	0.12	0.026	mg/Kg dry	1		SW-846 7471B	8/30/14	9/2/14 12:59	JMP
Nickel	8.9	0.54	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:15	OP
Selenium	ND	5.4	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:15	OP
Silver	ND	0.54	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:15	OP
Thallium	ND	2.7	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:15	OP
Vanadium	18	1.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:15	OP
Zinc	29	1.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:15	OP

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-156
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-13
Sampled: 8/27/2014 15:00

Sample ID: 14H1358-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide (PAC)	0.68	0.42	mg/Kg dry	1		MA DEP PAC	9/4/14	9/4/14 15:15	VAK
% Solids	92.2		% Wt	1		SM 2540G	9/3/14	9/4/14 8:01	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-160
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-14
Sampled: 8/27/2014 16:05

Sample ID: 14H1358-14

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:05	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:05	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:05	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:05	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:05	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:05	JMB
Aroclor-1260 [1]	0.60	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:05	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:05	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:05	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.0	30-150		8/30/14 18:05
Decachlorobiphenyl [2]	91.0	30-150		8/30/14 18:05
Tetrachloro-m-xylene [1]	94.4	30-150		8/30/14 18:05
Tetrachloro-m-xylene [2]	96.5	30-150		8/30/14 18:05

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park Sample Description: SS-160 Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-14 Sampled: 8/27/2014 16:05

Sample ID: 14H1358-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
C9-C18 Aliphatics	ND	23	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
C19-C36 Aliphatics	39	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
C19-C36 Aliphatics	56	23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
Unadjusted C11-C22 Aromatics	74	23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
Unadjusted C11-C22 Aromatics	67	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
C11-C22 Aromatics	62	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
C11-C22 Aromatics	69	23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
Acenaphthene	ND	0.23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
Acenaphthylene	ND	0.23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
Anthracene	ND	0.23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
Benzo(a)anthracene	0.32	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
Benzo(a)anthracene	0.38	0.23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
Benzo(a)pyrene	0.39	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
Benzo(a)pyrene	0.44	0.23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
Benzo(b)fluoranthene	0.68	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
Benzo(b)fluoranthene	0.75	0.23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
Benzo(g,h,i)perylene	0.31	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
Benzo(g,h,i)perylene	0.36	0.23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
Benzo(k)fluoranthene	0.21	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
Benzo(k)fluoranthene	0.23	0.23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
Chrysene	0.51	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
Chrysene	0.58	0.23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
Dibenz(a,h)anthracene	ND	0.23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
Fluoranthene	0.76	0.23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
Fluoranthene	0.71	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
Fluorene	ND	0.23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
Indeno(1,2,3-cd)pyrene	0.45	0.23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
Indeno(1,2,3-cd)pyrene	0.42	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
2-Methylnaphthalene	ND	0.23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
Naphthalene	ND	0.23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
Phenanthrene	0.34	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
Phenanthrene	0.44	0.23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS
Pyrene	0.79	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:35	SCS
Pyrene	0.83	0.23	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 14:55	SCS

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	**22.5**	*	40-140	S-19	9/6/14 11:35

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-160
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-14
Sampled: 8/27/2014 16:05

Sample ID: 14H1358-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL		Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**		**Recovery Limits**		**Flag/Qual**				
Chlorooctadecane (COD)		**24.8**	*	40-140		S-19			9/9/14 14:55	
o-Terphenyl (OTP)		**28.6**	*	40-140		S-19			9/6/14 11:35	
o-Terphenyl (OTP)		**30.9**	*	40-140		S-19			9/9/14 14:55	
2-Bromonaphthalene		83.2		40-140					9/9/14 14:55	
2-Bromonaphthalene		115		40-140					9/6/14 11:35	
2-Fluorobiphenyl		92.7		40-140					9/9/14 14:55	
2-Fluorobiphenyl		129		40-140					9/6/14 11:35	

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-160
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-14
Sampled: 8/27/2014 16:05

Sample ID: 14H1358-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.7	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:20	OP
Arsenic	3.5	2.7	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:20	OP
Barium	58	2.7	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:20	OP
Beryllium	0.40	0.27	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:20	OP
Cadmium	1.0	0.27	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:20	OP
Chromium	15	0.55	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:20	OP
Lead	150	0.82	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:20	OP
Mercury	0.11	0.028	mg/Kg dry	1		SW-846 7471B	8/30/14	9/2/14 13:00	JMP
Nickel	9.6	0.55	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:20	OP
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:20	OP
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:20	OP
Thallium	ND	2.7	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:20	OP
Vanadium	22	1.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:20	OP
Zinc	160	1.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:20	OP

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

Project Location: Mary Dennison Park
Sample Description: SS-160
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-14
Sampled: 8/27/2014 16:05
Sample ID: 14H1358-14
Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.4		% Wt	1		SM 2540G	9/3/14	9/4/14 8:01	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-161
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-15
Sampled: 8/27/2014 16:15

Sample ID: 14H1358-15

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:17	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:17	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:17	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:17	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:17	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:17	JMB
Aroclor-1260 [1]	0.18	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:17	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:17	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:17	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.5	30-150		8/30/14 18:17
Decachlorobiphenyl [2]	99.8	30-150		8/30/14 18:17
Tetrachloro-m-xylene [1]	99.1	30-150		8/30/14 18:17
Tetrachloro-m-xylene [2]	101	30-150		8/30/14 18:17

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-161 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-15 | Sampled: 8/27/2014 16:15

Sample ID: 14H1358-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
C19-C36 Aliphatics	31	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
Unadjusted C11-C22 Aromatics	110	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
C11-C22 Aromatics	94	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
Acenaphthene	0.15	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
Acenaphthylene	0.29	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
Anthracene	0.37	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
Benzo(a)anthracene	1.3	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
Benzo(a)pyrene	1.4	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
Benzo(b)fluoranthene	2.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
Benzo(g,h,i)perylene	0.93	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
Benzo(k)fluoranthene	0.69	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
Chrysene	1.8	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
Dibenz(a,h)anthracene	0.29	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
Fluoranthene	3.0	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
Fluorene	0.21	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
Indeno(1,2,3-cd)pyrene	1.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
Phenanthrene	1.8	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS
Pyrene	3.3	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 11:56	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	49.0	40-140		9/6/14 11:56
o-Terphenyl (OTP)	63.6	40-140		9/6/14 11:56
2-Bromonaphthalene	121	40-140		9/6/14 11:56
2-Fluorobiphenyl	135	40-140		9/6/14 11:56

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-161
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-15
Sampled: 8/27/2014 16:15

Sample ID: 14H1358-15

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:24	OP
Arsenic	5.4	2.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:24	OP
Barium	300	2.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:24	OP
Beryllium	0.44	0.26	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:24	OP
Cadmium	1.8	0.26	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:24	OP
Chromium	21	0.51	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:24	OP
Lead	490	0.77	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:24	OP
Mercury	2.9	0.26	mg/Kg dry	10		SW-846 7471B	8/30/14	9/2/14 13:11	JMP
Nickel	13	0.51	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:24	OP
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:24	OP
Silver	ND	0.51	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:24	OP
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:24	OP
Vanadium	22	1.0	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:24	OP
Zinc	500	1.0	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:24	OP

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

Project Location: Mary Dennison Park
Sample Description: SS-161
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-15
Sampled: 8/27/2014 16:15
Sample ID: 14H1358-15
Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide (PAC)	ND	0.50	mg/Kg dry	1		MA DEP PAC	9/4/14	9/4/14 15:15	VAK
% Solids	93.6		% Wt	1		SM 2540G	9/3/14	9/4/14 8:01	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-162
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-16
Sampled: 8/27/2014 16:25

Sample ID: 14H1358-16

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:29	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:29	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:29	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:29	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:29	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:29	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:29	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:29	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:29	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.1	30-150		8/30/14 18:29
Decachlorobiphenyl [2]	98.6	30-150		8/30/14 18:29
Tetrachloro-m-xylene [1]	99.6	30-150		8/30/14 18:29
Tetrachloro-m-xylene [2]	102	30-150		8/30/14 18:29

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-162 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-16 | Sampled: 8/27/2014 16:25

Sample ID: 14H1358-16

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
C19-C36 Aliphatics	21	11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
C19-C36 Aliphatics	28	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
Unadjusted C11-C22 Aromatics	100	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
Unadjusted C11-C22 Aromatics	42	11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
C11-C22 Aromatics	84	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
C11-C22 Aromatics	38	11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
Acenaphthylene	0.17	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
Anthracene	0.46	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
Anthracene	0.12	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
Benzo(a)anthracene	1.3	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
Benzo(a)anthracene	0.34	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
Benzo(a)pyrene	1.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
Benzo(a)pyrene	0.37	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
Benzo(b)fluoranthene	1.6	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
Benzo(b)fluoranthene	0.56	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
Benzo(g,h,i)perylene	0.58	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
Benzo(g,h,i)perylene	0.27	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
Benzo(k)fluoranthene	0.59	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
Benzo(k)fluoranthene	0.19	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
Chrysene	0.47	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
Chrysene	1.5	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
Dibenz(a,h)anthracene	0.21	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
Fluoranthene	2.7	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
Fluoranthene	0.74	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
Fluorene	0.18	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
Indeno(1,2,3-cd)pyrene	0.83	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
Indeno(1,2,3-cd)pyrene	0.33	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
Phenanthrene	1.9	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
Phenanthrene	0.53	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS
Pyrene	2.7	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:16	SCS
Pyrene	0.84	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:15	SCS

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	**24.9**	*	40-140	S-19	9/9/14 15:15

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-162 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-16 | Sampled: 8/27/2014 16:25

Sample ID: 14H1358-16

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL		Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**		**Recovery Limits**		**Flag/Qual**				
Chlorooctadecane (COD)		**29.7**	*	40-140		S-19			9/6/14 12:16	
o-Terphenyl (OTP)		40.8		40-140					9/6/14 12:16	
o-Terphenyl (OTP)		**27.1**	*	40-140		S-03			9/9/14 15:15	
2-Bromonaphthalene		129		40-140					9/6/14 12:16	
2-Bromonaphthalene		72.4		40-140					9/9/14 15:15	
2-Fluorobiphenyl		**150**	*	40-140		S-26			9/6/14 12:16	
2-Fluorobiphenyl		83.0		40-140					9/9/14 15:15	

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-162
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-16
Sampled: 8/27/2014 16:25

Sample ID: 14H1358-16

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:29	OP
Arsenic	4.6	2.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:29	OP
Barium	180	2.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:29	OP
Beryllium	0.44	0.26	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:29	OP
Cadmium	1.4	0.26	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:29	OP
Chromium	14	0.53	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:29	OP
Lead	260	0.79	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:29	OP
Mercury	0.18	0.027	mg/Kg dry	1		SW-846 7471B	8/30/14	9/2/14 13:03	JMP
Nickel	11	0.53	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:29	OP
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:29	OP
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:29	OP
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:29	OP
Vanadium	21	1.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:29	OP
Zinc	370	1.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:29	OP

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

Project Location: Mary Dennison Park
Sample Description: SS-162
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-16
Sampled: 8/27/2014 16:25
Sample ID: 14H1358-16
Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.5		% Wt	1		SM 2540G	9/3/14	9/4/14 8:01	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-163
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-17
Sampled: 8/27/2014 16:20

Sample ID: 14H1358-17

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:41	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:41	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:41	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:41	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:41	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:41	JMB
Aroclor-1260 [1]	0.30	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:41	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:41	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:41	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.4	30-150		8/30/14 18:41
Decachlorobiphenyl [2]	99.4	30-150		8/30/14 18:41
Tetrachloro-m-xylene [1]	98.7	30-150		8/30/14 18:41
Tetrachloro-m-xylene [2]	99.8	30-150		8/30/14 18:41

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park Sample Description: SS-163 Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-17 Sampled: 8/27/2014 16:20

Sample ID: 14H1358-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	22	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
C19-C36 Aliphatics	61	22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
C19-C36 Aliphatics	75	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
Unadjusted C11-C22 Aromatics	120	22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
Unadjusted C11-C22 Aromatics	100	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
C11-C22 Aromatics	100	22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
C11-C22 Aromatics	94	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
Acenaphthene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
Acenaphthylene	0.25	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
Acenaphthylene	0.21	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
Anthracene	0.32	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
Anthracene	0.21	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
Benzo(a)anthracene	1.1	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
Benzo(a)anthracene	0.77	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
Benzo(a)pyrene	0.79	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
Benzo(a)pyrene	1.3	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
Benzo(b)fluoranthene	2.0	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
Benzo(b)fluoranthene	1.3	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
Benzo(g,h,i)perylene	0.87	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
Benzo(g,h,i)perylene	0.56	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
Benzo(k)fluoranthene	0.67	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
Benzo(k)fluoranthene	0.39	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
Chrysene	1.6	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
Chrysene	1.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
Dibenz(a,h)anthracene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
Dibenz(a,h)anthracene	0.18	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
Fluoranthene	1.7	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
Fluoranthene	2.8	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
Fluorene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
Fluorene	0.15	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
Indeno(1,2,3-cd)pyrene	1.1	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
Indeno(1,2,3-cd)pyrene	0.69	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
2-Methylnaphthalene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
Naphthalene	ND	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
Naphthalene	0.12	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
Phenanthrene	1.6	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
Phenanthrene	1.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS
Pyrene	2.9	0.22	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:36	SCS
Pyrene	1.9	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:37	SCS

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	**27.0**	*	40-140	S-19	9/9/14 15:36

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-163 | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-17 | Sampled: 8/27/2014 16:20

Sample ID: 14H1358-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL		Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**		**Recovery Limits**		**Flag/Qual**				
Chlorooctadecane (COD)		**38.5**	*	40-140		S-19			9/6/14 12:37	
o-Terphenyl (OTP)		**28.5**	*	40-140		S-03			9/9/14 15:36	
o-Terphenyl (OTP)		50.4		40-140					9/6/14 12:37	
2-Bromonaphthalene		69.4		40-140					9/9/14 15:36	
2-Bromonaphthalene		118		40-140					9/6/14 12:37	
2-Fluorobiphenyl		80.3		40-140					9/9/14 15:36	
2-Fluorobiphenyl		133		40-140					9/6/14 12:37	

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-163
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-17
Sampled: 8/27/2014 16:20

Sample ID: 14H1358-17

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	12	2.8	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:50	OP
Arsenic	11	2.8	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:50	OP
Barium	650	2.8	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:50	OP
Beryllium	0.59	0.28	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:50	OP
Cadmium	4.0	0.28	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:50	OP
Chromium	45	0.55	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:50	OP
Lead	2100	0.83	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:50	OP
Mercury	0.19	0.026	mg/Kg dry	1		SW-846 7471B	8/30/14	9/2/14 13:04	JMP
Nickel	22	0.55	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:50	OP
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:50	OP
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:50	OP
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:50	OP
Vanadium	31	1.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:50	OP
Zinc	8400	11	mg/Kg dry	10		SW-846 6010C	8/30/14	9/3/14 14:50	OP

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

Project Location: Mary Dennison Park
Sample Description: SS-163
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-17
Sampled: 8/27/2014 16:20
Sample ID: 14H1358-17
Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.4		% Wt	1		SM 2540G	9/3/14	9/4/14 8:01	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-163D
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-18
Sampled: 8/27/2014 16:20

Sample ID: 14H1358-18

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:54	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:54	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:54	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:54	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:54	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:54	JMB
Aroclor-1260 [1]	0.26	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:54	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:54	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 18:54	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.3	30-150		8/30/14 18:54
Decachlorobiphenyl [2]	89.7	30-150		8/30/14 18:54
Tetrachloro-m-xylene [1]	91.3	30-150		8/30/14 18:54
Tetrachloro-m-xylene [2]	93.0	30-150		8/30/14 18:54

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-163D | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-18 | Sampled: 8/27/2014 16:20

Sample ID: 14H1358-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
C19-C36 Aliphatics	90	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
Unadjusted C11-C22 Aromatics	120	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
C11-C22 Aromatics	110	11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
Acenaphthylene	0.22	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
Anthracene	0.28	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
Benzo(a)anthracene	0.91	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
Benzo(a)pyrene	0.92	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
Benzo(b)fluoranthene	1.4	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
Benzo(g,h,i)perylene	0.65	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
Benzo(k)fluoranthene	0.45	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
Chrysene	1.3	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
Dibenz(a,h)anthracene	0.17	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
Fluoranthene	2.1	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
Fluorene	0.18	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
Indeno(1,2,3-cd)pyrene	0.77	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
Phenanthrene	1.4	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS
Pyrene	2.3	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	8/29/14	9/6/14 12:58	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	50.1	40-140		9/6/14 12:58
o-Terphenyl (OTP)	66.1	40-140		9/6/14 12:58
2-Bromonaphthalene	88.5	40-140		9/6/14 12:58
2-Fluorobiphenyl	101	40-140		9/6/14 12:58

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-163D
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-18
Sampled: 8/27/2014 16:20

Sample ID: 14H1358-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	5.1	2.8	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:55	OP
Arsenic	11	2.8	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:55	OP
Barium	690	2.8	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:55	OP
Beryllium	0.52	0.28	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:55	OP
Cadmium	3.2	0.28	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:55	OP
Chromium	43	0.55	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:55	OP
Lead	1800	0.83	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:55	OP
Mercury	0.19	0.027	mg/Kg dry	1		SW-846 7471B	8/30/14	9/2/14 13:06	JMP
Nickel	20	0.55	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:55	OP
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:55	OP
Silver	ND	0.55	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:55	OP
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:55	OP
Vanadium	25	1.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:55	OP
Zinc	4500	1.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 21:55	OP

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

Project Location: Mary Dennison Park
Sample Description: SS-163D
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-18
Sampled: 8/27/2014 16:20
Sample ID: 14H1358-18
Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.5		% Wt	1		SM 2540G	9/3/14	9/4/14 8:01	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-164 MS/MSD
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-19
Sampled: 8/27/2014 16:30

Sample ID: 14H1358-19

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 19:06	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 19:06	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 19:06	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 19:06	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 19:06	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 19:06	JMB
Aroclor-1260 [1]	0.27	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 19:06	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 19:06	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/29/14	8/30/14 19:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.2	30-150		8/30/14 19:06
Decachlorobiphenyl [2]	90.5	30-150		8/30/14 19:06
Tetrachloro-m-xylene [1]	88.2	30-150		8/30/14 19:06
Tetrachloro-m-xylene [2]	89.4	30-150		8/30/14 19:06

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park | Sample Description: SS-164 MS/MSD | Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-19 | Sampled: 8/27/2014 16:30

Sample ID: 14H1358-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
C19-C36 Aliphatics	56	11	mg/Kg dry	1	MS-09	MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
Unadjusted C11-C22 Aromatics	59	11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
C11-C22 Aromatics	54	11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
Benzo(a)anthracene	0.33	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
Benzo(a)pyrene	0.39	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
Benzo(b)fluoranthene	0.64	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
Benzo(g,h,i)perylene	0.29	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
Benzo(k)fluoranthene	0.20	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
Chrysene	0.53	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
Fluoranthene	0.79	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
Indeno(1,2,3-cd)pyrene	0.34	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
Phenanthrene	0.49	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS
Pyrene	0.87	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	9/8/14	9/9/14 15:56	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	40.1	40-140		9/9/14 15:56
o-Terphenyl (OTP)	46.9	40-140		9/9/14 15:56
2-Bromonaphthalene	74.9	40-140		9/9/14 15:56
2-Fluorobiphenyl	87.1	40-140		9/9/14 15:56

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: SS-164 MS/MSD
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-19
Sampled: 8/27/2014 16:30

Sample ID: 14H1358-19

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.6	mg/Kg dry	1	MS-09	SW-846 6010C	8/30/14	9/2/14 19:56	OP
Arsenic	5.1	2.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 19:56	OP
Barium	260	2.6	mg/Kg dry	1	MS-19	SW-846 6010C	8/30/14	9/2/14 19:56	OP
Beryllium	0.48	0.26	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 19:56	OP
Cadmium	1.4	0.26	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 19:56	OP
Chromium	23	0.53	mg/Kg dry	1	R-02	SW-846 6010C	8/30/14	9/2/14 19:56	OP
Lead	500	0.79	mg/Kg dry	1	MS-19	SW-846 6010C	8/30/14	9/2/14 19:56	OP
Mercury	0.19	0.027	mg/Kg dry	1		SW-846 7471B	8/30/14	9/2/14 13:07	JMP
Nickel	13	0.53	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 19:56	OP
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 19:56	OP
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 19:56	OP
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 19:56	OP
Vanadium	25	1.1	mg/Kg dry	1		SW-846 6010C	8/30/14	9/2/14 19:56	OP
Zinc	370	1.1	mg/Kg dry	1	MS-19	SW-846 6010C	8/30/14	9/2/14 19:56	OP

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

Project Location: Mary Dennison Park
Sample Description: SS-164 MS/MSD
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-19
Sampled: 8/27/2014 16:30
Sample ID: 14H1358-19
Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide (PAC)	0.55	0.49	mg/Kg dry	1		MA DEP PAC	9/4/14	9/4/14 15:15	VAK
% Solids	93.4		% Wt	1		SM 2540G	9/3/14	9/4/14 8:01	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: Equip. Blank
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-20
Sampled: 8/27/2014 17:00

Sample ID: 14H1358-20

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/14	9/4/14 0:46	MJC
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/14	9/4/14 0:46	MJC
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/14	9/4/14 0:46	MJC
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/14	9/4/14 0:46	MJC
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/14	9/4/14 0:46	MJC
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/14	9/4/14 0:46	MJC
Aroclor-1260 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	9/2/14	9/4/14 0:46	MJC
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/14	9/4/14 0:46	MJC
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/2/14	9/4/14 0:46	MJC

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.2	30-150		9/4/14 0:46
Decachlorobiphenyl [2]	66.7	30-150		9/4/14 0:46
Tetrachloro-m-xylene [1]	88.6	30-150		9/4/14 0:46
Tetrachloro-m-xylene [2]	93.8	30-150		9/4/14 0:46

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: Equip. Blank
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-20
Sampled: 8/27/2014 17:00

Sample ID: 14H1358-20

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	100	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
C19-C36 Aliphatics	ND	100	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
Unadjusted C11-C22 Aromatics	ND	100	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
C11-C22 Aromatics	ND	100	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
Acenaphthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
Acenaphthylene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
Anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
Benzo(a)anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
Benzo(a)pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
Benzo(b)fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
Benzo(g,h,i)perylene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
Benzo(k)fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
Chrysene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
Dibenz(a,h)anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
Fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
Fluorene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
2-Methylnaphthalene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
Naphthalene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
Phenanthrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS
Pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	8/29/14	9/5/14 19:30	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	58.4	40-140		9/5/14 19:30
o-Terphenyl (OTP)	73.2	40-140		9/5/14 19:30
2-Bromonaphthalene	79.9	40-140		9/5/14 19:30
2-Fluorobiphenyl	90.3	40-140		9/5/14 19:30

con-test® ANALYTICAL LABORATORY

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

Project Location: Mary Dennison Park
Sample Description: Equip. Blank
Work Order: 14H1358

Date Received: 8/28/2014

Field Sample #: 1227140827-20
Sampled: 8/27/2014 17:00

Sample ID: 14H1358-20

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	0.050	mg/L	1		SW-846 6010C	8/30/14	9/2/14 20:36	OP
Arsenic	ND	0.010	mg/L	1		SW-846 6010C	8/30/14	9/2/14 20:36	OP
Barium	ND	0.050	mg/L	1		SW-846 6010C	8/30/14	9/2/14 20:36	OP
Beryllium	ND	0.0040	mg/L	1		SW-846 6010C	8/30/14	9/2/14 20:36	OP
Cadmium	ND	0.0040	mg/L	1		SW-846 6010C	8/30/14	9/2/14 20:36	OP
Chromium	ND	0.010	mg/L	1		SW-846 6010C	8/30/14	9/2/14 20:36	OP
Lead	ND	0.010	mg/L	1		SW-846 6010C	8/30/14	9/2/14 20:36	OP
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/30/14	9/2/14 11:37	JMP
Nickel	ND	0.010	mg/L	1		SW-846 6010C	8/30/14	9/2/14 20:36	OP
Selenium	ND	0.050	mg/L	1		SW-846 6010C	8/30/14	9/2/14 20:36	OP
Silver	ND	0.0050	mg/L	1		SW-846 6010C	8/30/14	9/2/14 20:36	OP
Thallium	ND	0.050	mg/L	1		SW-846 6010C	8/30/14	9/2/14 20:36	OP
Vanadium	ND	0.010	mg/L	1		SW-846 6010C	8/30/14	9/2/14 20:36	OP
Zinc	ND	0.020	mg/L	1		SW-846 6010C	8/30/14	9/2/14 20:36	OP

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

Project Location: Mary Dennison Park
Sample Description: Equip. Blank
Work Order: 14H1358
Date Received: 8/28/2014
Field Sample #: 1227140827-20
Sampled: 8/27/2014 17:00
Sample ID: 14H1358-20
Sample Matrix: Equipment Blank Water

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide (PAC)	ND	0.010	mg/L	1		MA DEP PAC	9/4/14	9/4/14 15:15	VAK

con-test® ANALYTICAL LABORATORY

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

Sample Extraction Data

MA DEP PAC

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14H1358-02 [1227140827-02]	B104291	1.47	50.0	09/04/14
14H1358-04 [1227140827-04]	B104291	1.46	50.0	09/04/14
14H1358-07 [1227140827-07]	B104291	1.16	50.0	09/04/14
14H1358-08 [1227140827-08]	B104291	1.10	50.0	09/04/14
14H1358-09 [1227140827-09]	B104291	1.12	50.0	09/04/14
14H1358-11 [1227140827-11]	B104291	1.53	50.0	09/04/14
14H1358-12 [1227140827-12]	B104291	1.19	50.0	09/04/14
14H1358-13 [1227140827-13]	B104291	1.29	50.0	09/04/14
14H1358-15 [1227140827-15]	B104291	1.06	50.0	09/04/14
14H1358-19 [1227140827-19]	B104291	1.09	50.0	09/04/14

MA DEP PAC

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14H1358-20 [1227140827-20]	B104292	50.0	50.0	09/04/14

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14H1358-01 [1227140827-01]	B103911	20.1	2.00	08/29/14
14H1358-02 [1227140827-02]	B103911	20.3	2.00	08/29/14
14H1358-03 [1227140827-03]	B103911	20.2	2.00	08/29/14
14H1358-04 [1227140827-04]	B103911	20.1	2.00	08/29/14
14H1358-05 [1227140827-05]	B103911	20.4	2.00	08/29/14
14H1358-06 [1227140827-06]	B103911	20.2	2.00	08/29/14
14H1358-07 [1227140827-07]	B103911	20.2	2.00	08/29/14
14H1358-08 [1227140827-08]	B103911	20.0	2.00	08/29/14
14H1358-09 [1227140827-09]	B103911	20.0	2.00	08/29/14
14H1358-11 [1227140827-11]	B103911	20.1	2.00	08/29/14
14H1358-12 [1227140827-12]	B103911	20.3	2.00	08/29/14
14H1358-13 [1227140827-13]	B103911	20.3	2.00	08/29/14
14H1358-14 [1227140827-14]	B103911	20.3	2.00	08/29/14
14H1358-15 [1227140827-15]	B103911	20.1	2.00	08/29/14
14H1358-16 [1227140827-16]	B103911	20.0	2.00	08/29/14
14H1358-17 [1227140827-17]	B103911	20.2	2.00	08/29/14
14H1358-18 [1227140827-18]	B103911	20.3	2.00	08/29/14

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14H1358-04RE1 [1227140827-04]	B104373	20.1	2.00	09/08/14
14H1358-10RE1 [1227140827-10]	B104373	10.0	2.00	09/08/14
14H1358-12RE1 [1227140827-12]	B104373	10.0	2.00	09/08/14
14H1358-14RE1 [1227140827-14]	B104373	10.0	2.00	09/08/14
14H1358-16RE1 [1227140827-16]	B104373	20.1	2.00	09/08/14
14H1358-17RE1 [1227140827-17]	B104373	10.0	2.00	09/08/14
14H1358-19RE1 [1227140827-19]	B104373	20.0	2.00	09/08/14

con-test® ANALYTICAL LABORATORY

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

Sample Extraction Data

Prep Method: SW-846 3510C-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14H1358-20 [1227140827-20]	B103860	1000	2.00	08/29/14

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
14H1358-01 [1227140827-01]	B104092	09/03/14
14H1358-02 [1227140827-02]	B104092	09/03/14
14H1358-03 [1227140827-03]	B104092	09/03/14
14H1358-04 [1227140827-04]	B104092	09/03/14
14H1358-05 [1227140827-05]	B104092	09/03/14
14H1358-06 [1227140827-06]	B104092	09/03/14
14H1358-07 [1227140827-07]	B104092	09/03/14
14H1358-08 [1227140827-08]	B104092	09/03/14
14H1358-09 [1227140827-09]	B104092	09/03/14
14H1358-10 [1227140827-10]	B104092	09/03/14
14H1358-11 [1227140827-11]	B104092	09/03/14
14H1358-12 [1227140827-12]	B104092	09/03/14
14H1358-13 [1227140827-13]	B104092	09/03/14
14H1358-14 [1227140827-14]	B104092	09/03/14
14H1358-15 [1227140827-15]	B104092	09/03/14
14H1358-16 [1227140827-16]	B104092	09/03/14
14H1358-17 [1227140827-17]	B104092	09/03/14
14H1358-18 [1227140827-18]	B104092	09/03/14
14H1358-19 [1227140827-19]	B104092	09/03/14

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14H1358-02 [1227140827-02]	B103933	1.00	50.0	08/30/14
14H1358-03 [1227140827-03]	B103933	1.02	50.0	08/30/14
14H1358-04 [1227140827-04]	B103933	1.04	50.0	08/30/14
14H1358-05 [1227140827-05]	B103933	1.03	50.0	08/30/14
14H1358-06 [1227140827-06]	B103933	1.03	50.0	08/30/14
14H1358-07 [1227140827-07]	B103933	1.04	50.0	08/30/14
14H1358-08 [1227140827-08]	B103933	1.02	50.0	08/30/14
14H1358-09 [1227140827-09]	B103933	1.01	50.0	08/30/14
14H1358-10 [1227140827-10]	B103933	1.01	50.0	08/30/14
14H1358-11 [1227140827-11]	B103933	1.06	50.0	08/30/14
14H1358-12 [1227140827-12]	B103933	1.01	50.0	08/30/14
14H1358-13 [1227140827-13]	B103933	1.01	50.0	08/30/14
14H1358-14 [1227140827-14]	B103933	1.03	50.0	08/30/14
14H1358-15 [1227140827-15]	B103933	1.04	50.0	08/30/14
14H1358-16 [1227140827-16]	B103933	1.05	50.0	08/30/14
14H1358-17 [1227140827-17]	B103933	1.01	50.0	08/30/14
14H1358-18 [1227140827-18]	B103933	1.01	50.0	08/30/14
14H1358-19 [1227140827-19]	B103933	1.02	50.0	08/30/14

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14H1358-01 [1227140827-01]	B103995	1.00	50.0	09/02/14

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

Sample Extraction Data

Prep Method: SW-846 3005A-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14H1358-20 [1227140827-20]	B103942	50.0	50.0	08/30/14

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14H1358-20 [1227140827-20]	B103936	6.00	6.00	08/30/14

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14H1358-06 [1227140827-06]	B103934	0.637	50.0	08/30/14
14H1358-07 [1227140827-07]	B103934	0.636	50.0	08/30/14
14H1358-08 [1227140827-08]	B103934	0.622	50.0	08/30/14
14H1358-09 [1227140827-09]	B103934	0.637	50.0	08/30/14
14H1358-10 [1227140827-10]	B103934	0.637	50.0	08/30/14
14H1358-11 [1227140827-11]	B103934	0.607	50.0	08/30/14
14H1358-12 [1227140827-12]	B103934	0.640	50.0	08/30/14
14H1358-13 [1227140827-13]	B103934	0.616	50.0	08/30/14
14H1358-14 [1227140827-14]	B103934	0.611	50.0	08/30/14
14H1358-15 [1227140827-15]	B103934	0.623	50.0	08/30/14
14H1358-16 [1227140827-16]	B103934	0.608	50.0	08/30/14
14H1358-17 [1227140827-17]	B103934	0.634	50.0	08/30/14
14H1358-18 [1227140827-18]	B103934	0.624	50.0	08/30/14
14H1358-19 [1227140827-19]	B103934	0.606	50.0	08/30/14

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14H1358-01 [1227140827-01]	B104104	0.626	50.0	09/03/14
14H1358-02 [1227140827-02]	B104104	0.603	50.0	09/03/14
14H1358-03 [1227140827-03]	B104104	0.601	50.0	09/03/14
14H1358-04 [1227140827-04]	B104104	0.606	50.0	09/03/14
14H1358-05 [1227140827-05]	B104104	0.614	50.0	09/03/14

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14H1358-01 [1227140827-01]	B103913	10.1	10.0	08/29/14
14H1358-02 [1227140827-02]	B103913	10.0	10.0	08/29/14
14H1358-03 [1227140827-03]	B103913	10.0	10.0	08/29/14
14H1358-04 [1227140827-04]	B103913	10.3	10.0	08/29/14
14H1358-05 [1227140827-05]	B103913	10.1	10.0	08/29/14
14H1358-06 [1227140827-06]	B103913	10.2	10.0	08/29/14
14H1358-07 [1227140827-07]	B103913	10.0	10.0	08/29/14
14H1358-08 [1227140827-08]	B103913	10.1	10.0	08/29/14
14H1358-09 [1227140827-09]	B103913	10.2	10.0	08/29/14
14H1358-10 [1227140827-10]	B103913	10.3	10.0	08/29/14
14H1358-11 [1227140827-11]	B103913	10.2	10.0	08/29/14
14H1358-12 [1227140827-12]	B103913	10.1	10.0	08/29/14

con-test® ANALYTICAL LABORATORY

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

Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
14H1358-13 [1227140827-13]	B103913	10.3	10.0	08/29/14
14H1358-14 [1227140827-14]	B103913	10.2	10.0	08/29/14
14H1358-15 [1227140827-15]	B103913	10.2	10.0	08/29/14
14H1358-16 [1227140827-16]	B103913	10.1	10.0	08/29/14
14H1358-17 [1227140827-17]	B103913	10.3	10.0	08/29/14
14H1358-18 [1227140827-18]	B103913	10.1	10.0	08/29/14
14H1358-19 [1227140827-19]	B103913	10.1	10.0	08/29/14

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
14H1358-20 [1227140827-20]	B104021	1000	10.0	09/02/14

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B103913 - SW-846 3546										
Blank (B103913-BLK1)				Prepared: 08/29/14 Analyzed: 08/30/14						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.220*		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.211*		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.214*		mg/Kg wet	0.200		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.210*		mg/Kg wet	0.200		105	30-150			
LCS (B103913-BS1)				Prepared: 08/29/14 Analyzed: 08/30/14						
Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		105	40-140			
Aroclor-1016 [2C]	0.21	0.10	mg/Kg wet	0.200		106	40-140			
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		102	40-140			
Aroclor-1260 [2C]	0.20	0.10	mg/Kg wet	0.200		102	40-140			
Surrogate: Decachlorobiphenyl	*0.213*		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.208*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.210*		mg/Kg wet	0.200		105	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.215*		mg/Kg wet	0.200		107	30-150			
LCS Dup (B103913-BSD1)				Prepared: 08/29/14 Analyzed: 08/30/14						
Aroclor-1016	0.22	0.10	mg/Kg wet	0.200		108	40-140	2.67	30	
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		109	40-140	3.40	30	
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		104	40-140	1.56	30	
Aroclor-1260 [2C]	0.20	0.10	mg/Kg wet	0.200		102	40-140	0.134	30	
Surrogate: Decachlorobiphenyl	*0.215*		mg/Kg wet	0.200		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.211*		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.211*		mg/Kg wet	0.200		105	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.215*		mg/Kg wet	0.200		108	30-150			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B103913 - SW-846 3546										
Matrix Spike (B103913-MS1)		**Source: 14H1358-19**		Prepared: 08/29/14 Analyzed: 08/30/14						
Aroclor-1016	0.21	0.10	mg/Kg dry	0.208	ND	102	40-140			
Aroclor-1016 [2C]	0.21	0.10	mg/Kg dry	0.208	ND	102	40-140			
Aroclor-1260	0.43	0.10	mg/Kg dry	0.208	0.27	79.8	40-140			
Aroclor-1260 [2C]	0.40	0.10	mg/Kg dry	0.208	0.23	80.9	40-140			
Surrogate: Decachlorobiphenyl	*0.192*		mg/Kg dry	0.208		92.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.205*		mg/Kg dry	0.208		98.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.201*		mg/Kg dry	0.208		96.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.204*		mg/Kg dry	0.208		97.9	30-150			
Matrix Spike Dup (B103913-MSD1)		**Source: 14H1358-19**		Prepared: 08/29/14 Analyzed: 08/30/14						
Aroclor-1016	0.23	0.10	mg/Kg dry	0.210	ND	108	40-140	6.81	30	
Aroclor-1016 [2C]	0.23	0.10	mg/Kg dry	0.210	ND	107	40-140	6.56	30	
Aroclor-1260	0.47	0.10	mg/Kg dry	0.210	0.27	96.9	40-140	8.36	30	
Aroclor-1260 [2C]	0.43	0.10	mg/Kg dry	0.210	0.23	96.7	40-140	8.38	30	
Surrogate: Decachlorobiphenyl	*0.205*		mg/Kg dry	0.210		97.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.225*		mg/Kg dry	0.210		107	30-150			
Surrogate: Tetrachloro-m-xylene	*0.209*		mg/Kg dry	0.210		99.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.210*		mg/Kg dry	0.210		100	30-150			
Batch B104021 - SW-846 3510C										
Blank (B104021-BLK1)				Prepared: 09/02/14 Analyzed: 09/03/14						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							R-05
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							R-05
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.39*		µg/L	2.00		69.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.46*		µg/L	2.00		73.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.46*		µg/L	2.00		73.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.57*		µg/L	2.00		78.7	30-150			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B104021 - SW-846 3510C											
LCS (B104021-BS1)				Prepared: 09/02/14 Analyzed: 09/03/14							
Aroclor-1016	0.42	0.20	µg/L	0.500		83.7	40-140				
Aroclor-1016 [2C]	0.49	0.20	µg/L	0.500		98.8	40-140				R-05
Aroclor-1260	0.43	0.20	µg/L	0.500		85.2	40-140				R-05
Aroclor-1260 [2C]	0.43	0.20	µg/L	0.500		86.8	40-140				
Surrogate: Decachlorobiphenyl	*1.45*		µg/L	2.00		72.7	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.47*		µg/L	2.00		73.7	30-150				
Surrogate: Tetrachloro-m-xylene	*1.55*		µg/L	2.00		77.3	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.64*		µg/L	2.00		81.8	30-150				
LCS Dup (B104021-BSD1)				Prepared: 09/02/14 Analyzed: 09/03/14							
Aroclor-1016	0.35	0.20	µg/L	0.500		71.0	40-140	16.5		20	
Aroclor-1016 [2C]	0.38	0.20	µg/L	0.500		76.7	40-140	**25.2**	*	20	R-05
Aroclor-1260	0.34	0.20	µg/L	0.500		68.4	40-140	**21.9**	*	20	R-05
Aroclor-1260 [2C]	0.36	0.20	µg/L	0.500		72.7	40-140	17.7		20	
Surrogate: Decachlorobiphenyl	*1.06*		µg/L	2.00		53.0	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.07*		µg/L	2.00		53.4	30-150				
Surrogate: Tetrachloro-m-xylene	*1.21*		µg/L	2.00		60.4	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.27*		µg/L	2.00		63.5	30-150				

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B103860 - SW-846 3510C										
Blank (B103860-BLK1)				Prepared: 08/29/14 Analyzed: 09/02/14						
C9-C18 Aliphatics	ND	100	µg/L							
C19-C36 Aliphatics	ND	100	µg/L							
Unadjusted C11-C22 Aromatics	ND	100	µg/L							
C11-C22 Aromatics	ND	100	µg/L							
Acenaphthene	ND	2.0	µg/L							
Acenaphthylene	ND	2.0	µg/L							
Anthracene	ND	2.0	µg/L							
Benzo(a)anthracene	ND	2.0	µg/L							
Benzo(a)pyrene	ND	2.0	µg/L							
Benzo(b)fluoranthene	ND	2.0	µg/L							
Benzo(g,h,i)perylene	ND	2.0	µg/L							
Benzo(k)fluoranthene	ND	2.0	µg/L							
Chrysene	ND	2.0	µg/L							
Dibenz(a,h)anthracene	ND	2.0	µg/L							
Fluoranthene	ND	2.0	µg/L							
Fluorene	ND	2.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L							
2-Methylnaphthalene	ND	2.0	µg/L							
Naphthalene	ND	2.0	µg/L							
Phenanthrene	ND	2.0	µg/L							
Pyrene	ND	2.0	µg/L							
n-Decane	ND	2.0	µg/L							
n-Docosane	ND	2.0	µg/L							
n-Dodecane	ND	2.0	µg/L							
n-Eicosane	ND	2.0	µg/L							
n-Hexacosane	ND	2.0	µg/L							
n-Hexadecane	ND	2.0	µg/L							
n-Hexatriacontane	ND	2.0	µg/L							
n-Nonadecane	ND	2.0	µg/L							
n-Nonane	ND	2.0	µg/L							
n-Octacosane	ND	2.0	µg/L							
n-Octadecane	ND	2.0	µg/L							
n-Tetracosane	ND	2.0	µg/L							
n-Tetradecane	ND	2.0	µg/L							
n-Triacontane	ND	2.0	µg/L							
Naphthalene-aliphatic fraction	ND	2.0	µg/L							
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L							
Surrogate: Chlorooctadecane (COD)	*70.9*		µg/L	100		70.9	40-140			
Surrogate: o-Terphenyl (OTP)	*92.7*		µg/L	101		91.8	40-140			
Surrogate: 2-Bromonaphthalene	*102*		µg/L	100		102	40-140			
Surrogate: 2-Fluorobiphenyl	*110*		µg/L	100		110	40-140			
LCS (B103860-BS1)				Prepared: 08/29/14 Analyzed: 09/02/14						
Acenaphthene	96.6	2.0	µg/L	100		96.6	40-140			
Acenaphthylene	92.3	2.0	µg/L	100		92.3	40-140			
Anthracene	114	2.0	µg/L	100		114	40-140			
Benzo(a)anthracene	106	2.0	µg/L	100		106	40-140			
Benzo(a)pyrene	104	2.0	µg/L	100		104	40-140			
Benzo(b)fluoranthene	103	2.0	µg/L	100		103	40-140			
Benzo(g,h,i)perylene	106	2.0	µg/L	100		106	40-140			
Benzo(k)fluoranthene	102	2.0	µg/L	100		102	40-140			
Chrysene	107	2.0	µg/L	100		107	40-140			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B103860 - SW-846 3510C										
LCS (B103860-BS1)				Prepared: 08/29/14 Analyzed: 09/02/14						
Dibenz(a,h)anthracene	102	2.0	µg/L	100		102	40-140			
Fluoranthene	107	2.0	µg/L	100		107	40-140			
Fluorene	104	2.0	µg/L	100		104	40-140			
Indeno(1,2,3-cd)pyrene	85.3	2.0	µg/L	100		85.3	40-140			
2-Methylnaphthalene	88.3	2.0	µg/L	100		88.3	40-140			
Naphthalene	79.3	2.0	µg/L	100		79.3	40-140			
Phenanthrene	107	2.0	µg/L	100		107	40-140			
Pyrene	107	2.0	µg/L	100		107	40-140			
n-Decane	47.3	2.0	µg/L	100		47.3	40-140			
n-Docosane	83.9	2.0	µg/L	100		83.9	40-140			
n-Dodecane	66.4	2.0	µg/L	100		66.4	40-140			
n-Eicosane	83.5	2.0	µg/L	100		83.5	40-140			
n-Hexacosane	81.3	2.0	µg/L	100		81.3	40-140			
n-Hexadecane	85.5	2.0	µg/L	100		85.5	40-140			
n-Hexatriacontane	96.0	2.0	µg/L	100		96.0	40-140			
n-Nonadecane	85.4	2.0	µg/L	100		85.4	40-140			
n-Nonane	34.7	2.0	µg/L	100		34.7	30-140			
n-Octacosane	80.5	2.0	µg/L	100		80.5	40-140			
n-Octadecane	86.0	2.0	µg/L	100		86.0	40-140			
n-Tetracosane	81.6	2.0	µg/L	100		81.6	40-140			
n-Tetradecane	77.6	2.0	µg/L	100		77.6	40-140			
n-Triacontane	83.4	2.0	µg/L	100		83.4	40-140			
Naphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
Surrogate: Chlorooctadecane (COD)	*72.8*		µg/L	100		72.8	40-140			
Surrogate: o-Terphenyl (OTP)	*104*		µg/L	101		103	40-140			
Surrogate: 2-Bromonaphthalene	*104*		µg/L	100		104	40-140			
Surrogate: 2-Fluorobiphenyl	*114*		µg/L	100		114	40-140			
LCS Dup (B103860-BSD1)				Prepared: 08/29/14 Analyzed: 09/02/14						
Acenaphthene	85.0	2.0	µg/L	100		85.0	40-140	12.8	25	
Acenaphthylene	80.9	2.0	µg/L	100		80.9	40-140	13.2	25	
Anthracene	103	2.0	µg/L	100		103	40-140	10.5	25	
Benzo(a)anthracene	95.7	2.0	µg/L	100		95.7	40-140	10.0	25	
Benzo(a)pyrene	94.7	2.0	µg/L	100		94.7	40-140	9.60	25	
Benzo(b)fluoranthene	93.5	2.0	µg/L	100		93.5	40-140	9.78	25	
Benzo(g,h,i)perylene	96.6	2.0	µg/L	100		96.6	40-140	9.26	25	
Benzo(k)fluoranthene	92.3	2.0	µg/L	100		92.3	40-140	9.60	25	
Chrysene	96.5	2.0	µg/L	100		96.5	40-140	9.91	25	
Dibenz(a,h)anthracene	93.1	2.0	µg/L	100		93.1	40-140	9.36	25	
Fluoranthene	96.5	2.0	µg/L	100		96.5	40-140	10.1	25	
Fluorene	91.0	2.0	µg/L	100		91.0	40-140	13.0	25	
Indeno(1,2,3-cd)pyrene	77.7	2.0	µg/L	100		77.7	40-140	9.34	25	
2-Methylnaphthalene	77.8	2.0	µg/L	100		77.8	40-140	12.7	25	
Naphthalene	69.8	2.0	µg/L	100		69.8	40-140	12.7	25	
Phenanthrene	95.1	2.0	µg/L	100		95.1	40-140	11.4	25	
Pyrene	96.5	2.0	µg/L	100		96.5	40-140	10.1	25	
n-Decane	44.1	2.0	µg/L	100		44.1	40-140	6.99	25	
n-Docosane	82.2	2.0	µg/L	100		82.2	40-140	2.07	25	
n-Dodecane	63.0	2.0	µg/L	100		63.0	40-140	5.12	25	
n-Eicosane	81.5	2.0	µg/L	100		81.5	40-140	2.48	25	
n-Hexacosane	80.4	2.0	µg/L	100		80.4	40-140	1.12	25	

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B103860 - SW-846 3510C										
LCS Dup (B103860-BSD1)				Prepared: 08/29/14 Analyzed: 09/02/14						
n-Hexadecane	82.6	2.0	µg/L	100		82.6	40-140	3.45	25	
n-Hexatriacontane	95.7	2.0	µg/L	100		95.7	40-140	0.373	25	
n-Nonadecane	83.1	2.0	µg/L	100		83.1	40-140	2.65	25	
n-Nonane	31.6	2.0	µg/L	100		31.6	30-140	9.26	25	
n-Octacosane	79.6	2.0	µg/L	100		79.6	40-140	1.11	25	
n-Octadecane	83.8	2.0	µg/L	100		83.8	40-140	2.57	25	
n-Tetracosane	80.0	2.0	µg/L	100		80.0	40-140	2.01	25	
n-Tetradecane	74.0	2.0	µg/L	100		74.0	40-140	4.66	25	
n-Triacontane	82.1	2.0	µg/L	100		82.1	40-140	1.48	25	
Naphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
Surrogate: Chlorooctadecane (COD)	*70.8*		µg/L	100		70.8	40-140			
Surrogate: o-Terphenyl (OTP)	*91.6*		µg/L	101		90.7	40-140			
Surrogate: 2-Bromonaphthalene	*102*		µg/L	100		102	40-140			
Surrogate: 2-Fluorobiphenyl	*112*		µg/L	100		112	40-140			
Batch B103911 - SW-846 3546										
Blank (B103911-BLK1)				Prepared: 08/29/14 Analyzed: 09/04/14						
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
n-Decane	ND	0.10	mg/Kg wet							
n-Docosane	ND	0.10	mg/Kg wet							
n-Dodecane	ND	0.10	mg/Kg wet							
n-Eicosane	ND	0.10	mg/Kg wet							
n-Hexacosane	ND	0.10	mg/Kg wet							
n-Hexadecane	ND	0.10	mg/Kg wet							
n-Hexatriacontane	ND	0.10	mg/Kg wet							
n-Nonadecane	ND	0.10	mg/Kg wet							
n-Nonane	ND	0.10	mg/Kg wet							
n-Octacosane	ND	0.10	mg/Kg wet							
n-Octadecane	ND	0.10	mg/Kg wet							
n-Tetracosane	ND	0.10	mg/Kg wet							
n-Tetradecane	ND	0.10	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B103911 - SW-846 3546										
Blank (B103911-BLK1)				Prepared: 08/29/14 Analyzed: 09/04/14						
n-Triacontane	ND	0.10	mg/Kg wet							
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet							
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*3.57*		mg/Kg wet	5.00		71.5	40-140			
Surrogate: o-Terphenyl (OTP)	*4.41*		mg/Kg wet	5.05		87.3	40-140			
Surrogate: 2-Bromonaphthalene	*5.35*		mg/Kg wet	5.00		107	40-140			
Surrogate: 2-Fluorobiphenyl	*5.96*		mg/Kg wet	5.00		119	40-140			
LCS (B103911-BS1)				Prepared: 08/29/14 Analyzed: 09/04/14						
Acenaphthene	4.40	0.10	mg/Kg wet	5.00		88.0	40-140			
Acenaphthylene	4.22	0.10	mg/Kg wet	5.00		84.3	40-140			
Anthracene	5.12	0.10	mg/Kg wet	5.00		102	40-140			
Benzo(a)anthracene	4.72	0.10	mg/Kg wet	5.00		94.4	40-140			
Benzo(a)pyrene	4.69	0.10	mg/Kg wet	5.00		93.8	40-140			
Benzo(b)fluoranthene	4.62	0.10	mg/Kg wet	5.00		92.5	40-140			
Benzo(g,h,i)perylene	4.82	0.10	mg/Kg wet	5.00		96.3	40-140			
Benzo(k)fluoranthene	4.58	0.10	mg/Kg wet	5.00		91.6	40-140			
Chrysene	4.76	0.10	mg/Kg wet	5.00		95.2	40-140			
Dibenz(a,h)anthracene	4.62	0.10	mg/Kg wet	5.00		92.5	40-140			
Fluoranthene	4.76	0.10	mg/Kg wet	5.00		95.2	40-140			
Fluorene	4.60	0.10	mg/Kg wet	5.00		92.0	40-140			
Indeno(1,2,3-cd)pyrene	3.86	0.10	mg/Kg wet	5.00		77.2	40-140			
2-Methylnaphthalene	4.12	0.10	mg/Kg wet	5.00		82.3	40-140			
Naphthalene	3.78	0.10	mg/Kg wet	5.00		75.5	40-140			
Phenanthrene	4.71	0.10	mg/Kg wet	5.00		94.2	40-140			
Pyrene	4.76	0.10	mg/Kg wet	5.00		95.3	40-140			
n-Decane	2.63	0.10	mg/Kg wet	5.00		52.6	40-140			
n-Docosane	4.09	0.10	mg/Kg wet	5.00		81.9	40-140			
n-Dodecane	3.39	0.10	mg/Kg wet	5.00		67.9	40-140			
n-Eicosane	4.02	0.10	mg/Kg wet	5.00		80.4	40-140			
n-Hexacosane	3.96	0.10	mg/Kg wet	5.00		79.1	40-140			
n-Hexadecane	4.09	0.10	mg/Kg wet	5.00		81.7	40-140			
n-Hexatriacontane	4.25	0.10	mg/Kg wet	5.00		85.0	40-140			
n-Nonadecane	4.08	0.10	mg/Kg wet	5.00		81.6	40-140			
n-Nonane	1.90	0.10	mg/Kg wet	5.00		38.0	30-140			
n-Octacosane	3.92	0.10	mg/Kg wet	5.00		78.5	40-140			
n-Octadecane	4.13	0.10	mg/Kg wet	5.00		82.5	40-140			
n-Tetracosane	3.98	0.10	mg/Kg wet	5.00		79.6	40-140			
n-Tetradecane	3.81	0.10	mg/Kg wet	5.00		76.2	40-140			
n-Triacontane	4.02	0.10	mg/Kg wet	5.00		80.5	40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*3.72*		mg/Kg wet	5.00		74.4	40-140			
Surrogate: o-Terphenyl (OTP)	*4.70*		mg/Kg wet	5.05		93.1	40-140			
Surrogate: 2-Bromonaphthalene	*5.30*		mg/Kg wet	5.00		106	40-140			
Surrogate: 2-Fluorobiphenyl	*5.95*		mg/Kg wet	5.00		119	40-140			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B103911 - SW-846 3546										
LCS Dup (B103911-BSD1)				Prepared: 08/29/14 Analyzed: 09/04/14						
Acenaphthene	5.07	0.10	mg/Kg wet	5.00		101	40-140	14.2	25	
Acenaphthylene	4.88	0.10	mg/Kg wet	5.00		97.7	40-140	14.7	25	
Anthracene	5.77	0.10	mg/Kg wet	5.00		115	40-140	12.0	25	
Benzo(a)anthracene	5.25	0.10	mg/Kg wet	5.00		105	40-140	10.7	25	
Benzo(a)pyrene	5.22	0.10	mg/Kg wet	5.00		104	40-140	10.6	25	
Benzo(b)fluoranthene	5.17	0.10	mg/Kg wet	5.00		103	40-140	11.2	25	
Benzo(g,h,i)perylene	5.36	0.10	mg/Kg wet	5.00		107	40-140	10.8	25	
Benzo(k)fluoranthene	5.08	0.10	mg/Kg wet	5.00		102	40-140	10.3	25	
Chrysene	5.27	0.10	mg/Kg wet	5.00		105	40-140	10.2	25	
Dibenz(a,h)anthracene	5.13	0.10	mg/Kg wet	5.00		103	40-140	10.4	25	
Fluoranthene	5.33	0.10	mg/Kg wet	5.00		107	40-140	11.3	25	
Fluorene	5.26	0.10	mg/Kg wet	5.00		105	40-140	13.5	25	
Indeno(1,2,3-cd)pyrene	4.30	0.10	mg/Kg wet	5.00		85.9	40-140	10.6	25	
2-Methylnaphthalene	4.98	0.10	mg/Kg wet	5.00		99.6	40-140	18.9	25	
Naphthalene	4.63	0.10	mg/Kg wet	5.00		92.5	40-140	20.2	25	
Phenanthrene	5.35	0.10	mg/Kg wet	5.00		107	40-140	12.8	25	
Pyrene	5.33	0.10	mg/Kg wet	5.00		107	40-140	11.2	25	
n-Decane	2.94	0.10	mg/Kg wet	5.00		58.9	40-140	11.2	25	
n-Docosane	4.25	0.10	mg/Kg wet	5.00		85.0	40-140	3.74	25	
n-Dodecane	3.78	0.10	mg/Kg wet	5.00		75.6	40-140	10.8	25	
n-Eicosane	4.20	0.10	mg/Kg wet	5.00		84.0	40-140	4.46	25	
n-Hexacosane	4.11	0.10	mg/Kg wet	5.00		82.1	40-140	3.71	25	
n-Hexadecane	4.32	0.10	mg/Kg wet	5.00		86.5	40-140	5.65	25	
n-Hexatriacontane	4.36	0.10	mg/Kg wet	5.00		87.1	40-140	2.43	25	
n-Nonadecane	4.28	0.10	mg/Kg wet	5.00		85.7	40-140	4.87	25	
n-Nonane	2.10	0.10	mg/Kg wet	5.00		42.0	30-140	9.94	25	
n-Octacosane	4.06	0.10	mg/Kg wet	5.00		81.1	40-140	3.31	25	
n-Octadecane	4.35	0.10	mg/Kg wet	5.00		87.0	40-140	5.25	25	
n-Tetracosane	4.13	0.10	mg/Kg wet	5.00		82.5	40-140	3.62	25	
n-Tetradecane	4.07	0.10	mg/Kg wet	5.00		81.4	40-140	6.53	25	
n-Triacontane	4.15	0.10	mg/Kg wet	5.00		83.0	40-140	3.09	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*3.72*		mg/Kg wet	5.00		74.4	40-140			
Surrogate: o-Terphenyl (OTP)	*5.11*		mg/Kg wet	5.05		101	40-140			
Surrogate: 2-Bromonaphthalene	*5.91*		mg/Kg wet	5.00		118	40-140			
Surrogate: 2-Fluorobiphenyl	*6.47*		mg/Kg wet	5.00		129	40-140			
Batch B104373 - SW-846 3546										
Blank (B104373-BLK1)				Prepared: 09/08/14 Analyzed: 09/09/14						
C9-C18 Aliphatics	ND	10	mg/Kg wet							L-04
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B104373 - SW-846 3546										
Blank (B104373-BLK1)				Prepared: 09/08/14 Analyzed: 09/09/14						
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
n-Decane	ND	0.10	mg/Kg wet							
n-Docosane	ND	0.10	mg/Kg wet							
n-Dodecane	ND	0.10	mg/Kg wet							
n-Eicosane	ND	0.10	mg/Kg wet							
n-Hexacosane	ND	0.10	mg/Kg wet							
n-Hexadecane	ND	0.10	mg/Kg wet							
n-Hexatriacontane	ND	0.10	mg/Kg wet							
n-Nonadecane	ND	0.10	mg/Kg wet							
n-Nonane	ND	0.10	mg/Kg wet							L-04
n-Octacosane	ND	0.10	mg/Kg wet							
n-Octadecane	ND	0.10	mg/Kg wet							
n-Tetracosane	ND	0.10	mg/Kg wet							
n-Tetradecane	ND	0.10	mg/Kg wet							
n-Triacontane	ND	0.10	mg/Kg wet							
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet							
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*2.97*		mg/Kg wet	5.00		59.3	40-140			
Surrogate: o-Terphenyl (OTP)	*2.98*		mg/Kg wet	5.05		59.1	40-140			
Surrogate: 2-Bromonaphthalene	*3.42*		mg/Kg wet	5.00		68.3	40-140			
Surrogate: 2-Fluorobiphenyl	*3.83*		mg/Kg wet	5.00		76.6	40-140			
LCS (B104373-BS1)				Prepared: 09/08/14 Analyzed: 09/09/14						
Acenaphthene	2.77	0.10	mg/Kg wet	5.00		55.3	40-140			
Acenaphthylene	2.68	0.10	mg/Kg wet	5.00		53.6	40-140			
Anthracene	3.03	0.10	mg/Kg wet	5.00		60.7	40-140			
Benzo(a)anthracene	2.77	0.10	mg/Kg wet	5.00		55.4	40-140			
Benzo(a)pyrene	2.75	0.10	mg/Kg wet	5.00		55.1	40-140			
Benzo(b)fluoranthene	2.67	0.10	mg/Kg wet	5.00		53.3	40-140			
Benzo(g,h,i)perylene	2.86	0.10	mg/Kg wet	5.00		57.3	40-140			
Benzo(k)fluoranthene	2.73	0.10	mg/Kg wet	5.00		54.6	40-140			
Chrysene	2.87	0.10	mg/Kg wet	5.00		57.4	40-140			
Dibenz(a,h)anthracene	2.81	0.10	mg/Kg wet	5.00		56.2	40-140			
Fluoranthene	2.74	0.10	mg/Kg wet	5.00		54.8	40-140			
Fluorene	2.83	0.10	mg/Kg wet	5.00		56.6	40-140			
Indeno(1,2,3-cd)pyrene	2.27	0.10	mg/Kg wet	5.00		45.4	40-140			
2-Methylnaphthalene	2.79	0.10	mg/Kg wet	5.00		55.9	40-140			
Naphthalene	2.68	0.10	mg/Kg wet	5.00		53.6	40-140			
Phenanthrene	2.79	0.10	mg/Kg wet	5.00		55.8	40-140			
Pyrene	2.72	0.10	mg/Kg wet	5.00		54.5	40-140			
n-Decane	2.18	0.10	mg/Kg wet	5.00		43.5	40-140			
n-Docosane	2.76	0.10	mg/Kg wet	5.00		55.2	40-140			
n-Dodecane	2.74	0.10	mg/Kg wet	5.00		54.8	40-140			
n-Eicosane	2.75	0.10	mg/Kg wet	5.00		55.0	40-140			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B104373 - SW-846 3546											
LCS (B104373-BS1)				Prepared: 09/08/14 Analyzed: 09/09/14							
n-Hexacosane	2.57	0.10	mg/Kg wet	5.00		51.5		40-140			
n-Hexadecane	3.03	0.10	mg/Kg wet	5.00		60.6		40-140			
n-Hexatriacontane	3.06	0.10	mg/Kg wet	5.00		61.2		40-140			
n-Nonadecane	2.85	0.10	mg/Kg wet	5.00		57.0		40-140			
n-Nonane	1.49	0.10	mg/Kg wet	5.00		**29.8**	*	30-140			L-04
n-Octacosane	2.54	0.10	mg/Kg wet	5.00		50.9		40-140			
n-Octadecane	2.92	0.10	mg/Kg wet	5.00		58.4		40-140			
n-Tetracosane	2.61	0.10	mg/Kg wet	5.00		52.3		40-140			
n-Tetradecane	2.92	0.10	mg/Kg wet	5.00		58.4		40-140			
n-Triacontane	2.62	0.10	mg/Kg wet	5.00		52.4		40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*2.34*		mg/Kg wet	5.00		46.8		40-140			
Surrogate: o-Terphenyl (OTP)	*2.55*		mg/Kg wet	5.05		50.6		40-140			
Surrogate: 2-Bromonaphthalene	*3.93*		mg/Kg wet	5.00		78.6		40-140			
Surrogate: 2-Fluorobiphenyl	*4.35*		mg/Kg wet	5.00		86.9		40-140			
LCS Dup (B104373-BSD1)				Prepared: 09/08/14 Analyzed: 09/09/14							
Acenaphthene	2.93	0.10	mg/Kg wet	5.00		58.6		40-140	5.65	25	
Acenaphthylene	2.84	0.10	mg/Kg wet	5.00		56.8		40-140	5.71	25	
Anthracene	3.27	0.10	mg/Kg wet	5.00		65.3		40-140	7.36	25	
Benzo(a)anthracene	2.98	0.10	mg/Kg wet	5.00		59.6		40-140	7.42	25	
Benzo(a)pyrene	2.96	0.10	mg/Kg wet	5.00		59.3		40-140	7.31	25	
Benzo(b)fluoranthene	2.86	0.10	mg/Kg wet	5.00		57.1		40-140	6.87	25	
Benzo(g,h,i)perylene	3.10	0.10	mg/Kg wet	5.00		61.9		40-140	7.78	25	
Benzo(k)fluoranthene	2.95	0.10	mg/Kg wet	5.00		59.0		40-140	7.62	25	
Chrysene	3.10	0.10	mg/Kg wet	5.00		62.1		40-140	7.86	25	
Dibenz(a,h)anthracene	3.03	0.10	mg/Kg wet	5.00		60.6		40-140	7.59	25	
Fluoranthene	2.95	0.10	mg/Kg wet	5.00		59.0		40-140	7.48	25	
Fluorene	3.01	0.10	mg/Kg wet	5.00		60.2		40-140	6.22	25	
Indeno(1,2,3-cd)pyrene	2.45	0.10	mg/Kg wet	5.00		48.9		40-140	7.47	25	
2-Methylnaphthalene	2.92	0.10	mg/Kg wet	5.00		58.3		40-140	4.31	25	
Naphthalene	2.77	0.10	mg/Kg wet	5.00		55.4		40-140	3.28	25	
Phenanthrene	2.99	0.10	mg/Kg wet	5.00		59.8		40-140	6.91	25	
Pyrene	2.94	0.10	mg/Kg wet	5.00		58.8		40-140	7.54	25	
n-Decane	1.98	0.10	mg/Kg wet	5.00		**39.6**	*	40-140	9.46	25	L-07
n-Docosane	2.83	0.10	mg/Kg wet	5.00		56.5		40-140	2.37	25	
n-Dodecane	2.58	0.10	mg/Kg wet	5.00		51.7		40-140	5.78	25	
n-Eicosane	2.83	0.10	mg/Kg wet	5.00		56.7		40-140	2.97	25	
n-Hexacosane	2.65	0.10	mg/Kg wet	5.00		52.9		40-140	2.82	25	
n-Hexadecane	3.04	0.10	mg/Kg wet	5.00		60.8		40-140	0.366	25	
n-Hexatriacontane	3.15	0.10	mg/Kg wet	5.00		63.0		40-140	2.84	25	
n-Nonadecane	2.91	0.10	mg/Kg wet	5.00		58.3		40-140	2.24	25	
n-Nonane	1.33	0.10	mg/Kg wet	5.00		**26.6**	*	30-140	11.4	25	L-04
n-Octacosane	2.61	0.10	mg/Kg wet	5.00		52.2		40-140	2.60	25	
n-Octadecane	2.98	0.10	mg/Kg wet	5.00		59.6		40-140	2.07	25	
n-Tetracosane	2.69	0.10	mg/Kg wet	5.00		53.8		40-140	2.97	25	
n-Tetradecane	2.87	0.10	mg/Kg wet	5.00		57.3		40-140	1.85	25	
n-Triacontane	2.69	0.10	mg/Kg wet	5.00		53.8		40-140	2.59	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*2.34*		mg/Kg wet	5.00		46.8		40-140			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B104373 - SW-846 3546											
LCS Dup (B104373-BSD1)				Prepared: 09/08/14 Analyzed: 09/09/14							
Surrogate: o-Terphenyl (OTP)	*2.65*		mg/Kg wet	5.05		52.4		40-140			
Surrogate: 2-Bromonaphthalene	*4.01*		mg/Kg wet	5.00		80.3		40-140			
Surrogate: 2-Fluorobiphenyl	*4.44*		mg/Kg wet	5.00		88.8		40-140			
Matrix Spike (B104373-MS1)		**Source: 14H1358-19RE1**		Prepared: 09/08/14 Analyzed: 09/09/14							
C9-C18 Aliphatics	25.1	11	mg/Kg dry	32.1	8.87	50.7		40-140			
C19-C36 Aliphatics	57.7	11	mg/Kg dry	42.8	56.4	**3.19**	*	40-140			MS-09
Unadjusted C11-C22 Aromatics	126	11	mg/Kg dry	91.0	58.7	73.9		40-140			
Acenaphthene	3.04	0.11	mg/Kg dry	5.35	0.00	56.8		40-140			
Acenaphthylene	3.00	0.11	mg/Kg dry	5.35	0.0972	54.3		40-140			
Anthracene	3.35	0.11	mg/Kg dry	5.35	0.0939	60.9		40-140			
Benzo(a)anthracene	3.59	0.11	mg/Kg dry	5.35	0.329	60.9		40-140			
Benzo(a)pyrene	3.35	0.11	mg/Kg dry	5.35	0.389	55.3		40-140			
Benzo(b)fluoranthene	3.82	0.11	mg/Kg dry	5.35	0.643	59.3		40-140			
Benzo(g,h,i)perylene	2.99	0.11	mg/Kg dry	5.35	0.286	50.5		40-140			
Benzo(k)fluoranthene	2.98	0.11	mg/Kg dry	5.35	0.202	52.0		40-140			
Chrysene	3.87	0.11	mg/Kg dry	5.35	0.528	62.5		40-140			
Dibenz(a,h)anthracene	2.46	0.11	mg/Kg dry	5.35	0.00	46.0		40-140			
Fluoranthene	4.85	0.11	mg/Kg dry	5.35	0.789	75.8		40-140			
Fluorene	3.15	0.11	mg/Kg dry	5.35	0.00	58.8		40-140			
Indeno(1,2,3-cd)pyrene	2.60	0.11	mg/Kg dry	5.35	0.343	42.2		40-140			
2-Methylnaphthalene	2.95	0.11	mg/Kg dry	5.35	0.00	55.1		40-140			
Naphthalene	2.70	0.11	mg/Kg dry	5.35	0.00	50.5		40-140			
Phenanthrene	4.15	0.11	mg/Kg dry	5.35	0.492	68.4		40-140			
Pyrene	4.94	0.11	mg/Kg dry	5.35	0.873	76.0		40-140			
n-Nonane	1.16	0.11	mg/Kg dry	5.35	0.00	**21.8**	*	30-140			MS-09
Surrogate: Chlorooctadecane (COD)	*2.33*		mg/Kg dry	5.35		43.5		40-140			
Surrogate: o-Terphenyl (OTP)	*2.67*		mg/Kg dry	5.41		49.3		40-140			
Surrogate: 2-Bromonaphthalene	*3.83*		mg/Kg dry	5.35		71.5		40-140			
Surrogate: 2-Fluorobiphenyl	*4.25*		mg/Kg dry	5.35		79.3		40-140			
Matrix Spike Dup (B104373-MSD1)		**Source: 14H1358-19RE1**		Prepared: 09/08/14 Analyzed: 09/09/14							
C9-C18 Aliphatics	21.4	11	mg/Kg dry	32.1	8.87	**39.1**	*	40-140	15.9	50	MS-22
C19-C36 Aliphatics	53.4	11	mg/Kg dry	42.8	56.4	**-7.04**	*	40-140	7.88	50	MS-09
Unadjusted C11-C22 Aromatics	125	11	mg/Kg dry	91.0	58.7	73.5		40-140	0.325	50	
Acenaphthene	2.16	0.11	mg/Kg dry	5.35	0.00	40.4		40-140	33.6	50	
Acenaphthylene	2.13	0.11	mg/Kg dry	5.35	0.0972	**38.0**	*	40-140	33.8	50	MS-22
Anthracene	2.53	0.11	mg/Kg dry	5.35	0.0939	45.4		40-140	28.1	50	
Benzo(a)anthracene	3.20	0.11	mg/Kg dry	5.35	0.329	53.7		40-140	11.4	50	
Benzo(a)pyrene	2.91	0.11	mg/Kg dry	5.35	0.389	47.0		40-140	14.2	50	
Benzo(b)fluoranthene	3.38	0.11	mg/Kg dry	5.35	0.643	51.1		40-140	12.2	50	
Benzo(g,h,i)perylene	2.39	0.11	mg/Kg dry	5.35	0.286	**39.3**	*	40-140	22.2	50	MS-22
Benzo(k)fluoranthene	2.41	0.11	mg/Kg dry	5.35	0.202	41.3		40-140	21.1	50	
Chrysene	3.52	0.11	mg/Kg dry	5.35	0.528	56.0		40-140	9.45	50	
Dibenz(a,h)anthracene	1.87	0.11	mg/Kg dry	5.35	0.00	**35.0**	*	40-140	27.2	50	MS-22
Fluoranthene	4.56	0.11	mg/Kg dry	5.35	0.789	70.4		40-140	6.20	50	
Fluorene	2.23	0.11	mg/Kg dry	5.35	0.00	41.7		40-140	34.0	50	
Indeno(1,2,3-cd)pyrene	2.16	0.11	mg/Kg dry	5.35	0.343	**34.0**	*	40-140	18.6	50	MS-22
2-Methylnaphthalene	2.15	0.11	mg/Kg dry	5.35	0.00	40.1		40-140	31.5	50	
Naphthalene	1.99	0.11	mg/Kg dry	5.35	0.00	**37.1**	*	40-140	30.5	50	MS-22
Phenanthrene	3.43	0.11	mg/Kg dry	5.35	0.492	55.0		40-140	19.0	50	
Pyrene	4.64	0.11	mg/Kg dry	5.35	0.873	70.3		40-140	6.41	50	

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B104373 - SW-846 3546											
Matrix Spike Dup (B104373-MSD1)		**Source: 14H1358-19RE1**		Prepared: 09/08/14 Analyzed: 09/09/14							
n-Nonane	0.864	0.11	mg/Kg dry	5.35	0.00	**16.1**	*	30-140	29.6	50	MS-09
Surrogate: Chlorooctadecane (COD)	*1.76*		mg/Kg dry	5.35		**32.8**	*	40-140			Z-01
Surrogate: o-Terphenyl (OTP)	*1.91*		mg/Kg dry	5.41		**35.3**	*	40-140			Z-01
Surrogate: 2-Bromonaphthalene	*3.70*		mg/Kg dry	5.35		69.1		40-140			
Surrogate: 2-Fluorobiphenyl	*4.13*		mg/Kg dry	5.35		77.1		40-140			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B103933 - SW-846 3050B										
Blank (B103933-BLK1)				Prepared: 08/30/14 Analyzed: 09/02/14						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B103933-BS1)				Prepared: 08/30/14 Analyzed: 09/02/14						
Antimony	104	5.0	mg/Kg wet	116		90.1	0-210.3			
Arsenic	112	5.0	mg/Kg wet	122		91.9	77.8-122.1			
Barium	153	5.0	mg/Kg wet	167		91.6	82-117.4			
Beryllium	52.2	0.50	mg/Kg wet	54.3		96.2	82.3-117.7			
Cadmium	81.8	0.50	mg/Kg wet	88.0		93.0	81.9-118.2			
Chromium	92.5	1.0	mg/Kg wet	102		90.7	78.7-120.6			
Lead	85.0	1.5	mg/Kg wet	94.5		89.9	82.4-117.8			
Nickel	50.6	1.0	mg/Kg wet	56.3		89.9	82.2-117.8			
Selenium	141	10	mg/Kg wet	157		90.1	77.1-122.3			
Silver	30.0	1.0	mg/Kg wet	34.2		87.7	74.3-125.4			
Thallium	103	5.0	mg/Kg wet	116		88.5	78.2-121.6			
Vanadium	60.0	2.0	mg/Kg wet	67.1		89.4	64.8-135.2			
Zinc	183	2.0	mg/Kg wet	207		88.5	79.7-120.8			
LCS Dup (B103933-BSD1)				Prepared: 08/30/14 Analyzed: 09/02/14						
Antimony	95.8	5.0	mg/Kg wet	116		82.6	0-210.3	8.68	30	
Arsenic	114	5.0	mg/Kg wet	122		93.5	77.8-122.1	1.67	30	
Barium	154	5.0	mg/Kg wet	167		92.2	82-117.4	0.587	30	
Beryllium	52.5	0.50	mg/Kg wet	54.3		96.7	82.3-117.7	0.469	30	
Cadmium	82.7	0.50	mg/Kg wet	88.0		94.0	81.9-118.2	1.15	30	
Chromium	94.0	1.0	mg/Kg wet	102		92.2	78.7-120.6	1.61	30	
Lead	89.6	1.5	mg/Kg wet	94.5		94.8	82.4-117.8	5.26	30	
Nickel	50.4	1.0	mg/Kg wet	56.3		89.6	82.2-117.8	0.366	30	
Selenium	144	10	mg/Kg wet	157		92.0	77.1-122.3	2.11	30	
Silver	30.4	1.0	mg/Kg wet	34.2		89.0	74.3-125.4	1.45	30	
Thallium	104	5.0	mg/Kg wet	116		89.6	78.2-121.6	1.17	30	
Vanadium	62.0	2.0	mg/Kg wet	67.1		92.4	64.8-135.2	3.32	30	
Zinc	186	2.0	mg/Kg wet	207		89.9	79.7-120.8	1.50	30	

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B103933 - SW-846 3050B												
Duplicate (B103933-DUP1)		**Source: 14H1358-19**		Prepared: 08/30/14 Analyzed: 09/02/14								
Antimony	ND	2.5	mg/Kg dry		2.59				NC		35	
Arsenic	4.55	2.5	mg/Kg dry		5.08				10.9		35	
Barium	187	2.5	mg/Kg dry		264				34.5		35	
Beryllium	0.474	0.25	mg/Kg dry		0.480				1.33		35	
Cadmium	1.16	0.25	mg/Kg dry		1.42				19.8		35	
Chromium	16.0	0.49	mg/Kg dry		23.2				**36.7**	*	35	R-02
Lead	663	0.74	mg/Kg dry		501				27.9		35	
Nickel	10.3	0.49	mg/Kg dry		13.2				24.9		35	
Selenium	ND	4.9	mg/Kg dry		ND				NC		35	
Silver	ND	0.49	mg/Kg dry		ND				NC		35	
Thallium	ND	2.5	mg/Kg dry		ND				NC		35	
Vanadium	23.3	0.99	mg/Kg dry		25.0				7.10		35	
Zinc	285	0.99	mg/Kg dry		369				25.7		35	
MRL Check (B103933-MRL1)				Prepared: 08/30/14 Analyzed: 09/03/14								
Lead	0.770	0.70	mg/Kg wet	0.696		111		80-120				
Matrix Spike (B103933-MS1)		**Source: 14H1358-19**		Prepared: 08/30/14 Analyzed: 09/02/14								
Antimony	14.6	2.6	mg/Kg dry	26.3	2.59	**45.5**	*	75-125				MS-09
Arsenic	28.5	2.6	mg/Kg dry	26.3	5.08	88.9		75-125				
Barium	233	2.6	mg/Kg dry	26.3	264	**-119**	*	75-125				MS-19
Beryllium	24.8	0.26	mg/Kg dry	26.3	0.480	92.4		75-125				
Cadmium	25.3	0.26	mg/Kg dry	26.3	1.42	90.8		75-125				
Chromium	45.4	0.53	mg/Kg dry	26.3	23.2	84.4		75-125				
Lead	904	0.79	mg/Kg dry	26.3	501	**1530**	*	75-125				MS-19
Nickel	34.1	0.53	mg/Kg dry	26.3	13.2	79.2		75-125				
Selenium	22.3	5.3	mg/Kg dry	26.3	ND	84.9		75-125				
Silver	22.6	0.53	mg/Kg dry	26.3	ND	85.9		75-125				
Thallium	21.9	2.6	mg/Kg dry	26.3	ND	83.1		75-125				
Vanadium	45.4	1.1	mg/Kg dry	26.3	25.0	77.4		75-125				
Zinc	351	1.1	mg/Kg dry	26.3	369	**-70.8**	*	75-125				MS-19
Matrix Spike Dup (B103933-MSD1)		**Source: 14H1358-19**		Prepared: 08/30/14 Analyzed: 09/02/14								
Antimony	13.6	2.5	mg/Kg dry	25.0	2.59	**43.9**	*	75-125	7.13		35	MS-09
Arsenic	27.0	2.5	mg/Kg dry	25.0	5.08	87.7		75-125	5.28		35	
Barium	242	2.5	mg/Kg dry	25.0	264	**-89.6**	*	75-125	3.71		35	MS-19
Beryllium	23.8	0.25	mg/Kg dry	25.0	0.480	93.1		75-125	4.24		35	
Cadmium	24.1	0.25	mg/Kg dry	25.0	1.42	90.7		75-125	4.83		35	
Chromium	38.3	0.50	mg/Kg dry	25.0	23.2	**60.5**	*	75-125	16.9		35	MS-22
Lead	525	0.75	mg/Kg dry	25.0	501	96.0		75-125	**53.1**	*	35	MS-19
Nickel	33.1	0.50	mg/Kg dry	25.0	13.2	79.7		75-125	2.72		35	
Selenium	21.3	5.0	mg/Kg dry	25.0	ND	85.3		75-125	4.65		35	
Silver	21.5	0.50	mg/Kg dry	25.0	ND	86.1		75-125	4.95		35	
Thallium	21.0	2.5	mg/Kg dry	25.0	ND	84.2		75-125	3.82		35	
Vanadium	44.9	1.0	mg/Kg dry	25.0	25.0	79.8		75-125	0.916		35	
Zinc	339	1.0	mg/Kg dry	25.0	369	**-121**	*	75-125	3.36		35	MS-19

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B103934 - SW-846 7471										
Blank (B103934-BLK1)				Prepared: 08/30/14	Analyzed: 09/02/14					
Mercury	ND	0.025	mg/Kg wet							
LCS (B103934-BS1)				Prepared: 08/30/14	Analyzed: 09/02/14					
Mercury	6.45	0.36	mg/Kg wet	5.76		112	71.2-128.6			
LCS Dup (B103934-BSD1)				Prepared: 08/30/14	Analyzed: 09/02/14					
Mercury	5.53	0.36	mg/Kg wet	5.76		96.1	71.2-128.6	15.3	30	
Duplicate (B103934-DUP1)		**Source: 14H1358-19**		Prepared: 08/30/14	Analyzed: 09/02/14					
Mercury	0.226	0.026	mg/Kg dry		0.191			17.0	35	
Matrix Spike (B103934-MS1)		**Source: 14H1358-19**		Prepared: 08/30/14	Analyzed: 09/02/14					
Mercury	0.372	0.026	mg/Kg dry	0.174	0.191	104	75-125			
Matrix Spike Dup (B103934-MSD1)		**Source: 14H1358-19**		Prepared: 08/30/14	Analyzed: 09/02/14					
Mercury	0.352	0.025	mg/Kg dry	0.165	0.191	97.4	75-125	5.42	35	
Batch B103936 - SW-846 7470A Prep										
Blank (B103936-BLK1)				Prepared: 08/30/14	Analyzed: 09/02/14					
Mercury	ND	0.00010	mg/L							
LCS (B103936-BS1)				Prepared: 08/30/14	Analyzed: 09/02/14					
Mercury	0.00214	0.00010	mg/L	0.00200		107	80-120			
LCS Dup (B103936-BSD1)				Prepared: 08/30/14	Analyzed: 09/02/14					
Mercury	0.00213	0.00010	mg/L	0.00200		106	80-120	0.848	20	
Batch B103942 - SW-846 3005A										
Blank (B103942-BLK1)				Prepared: 08/30/14	Analyzed: 09/02/14					
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.010	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.0040	mg/L							
Cadmium	ND	0.0040	mg/L							
Chromium	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Nickel	ND	0.010	mg/L							
Selenium	ND	0.050	mg/L							
Silver	ND	0.0050	mg/L							
Thallium	ND	0.050	mg/L							
Vanadium	ND	0.010	mg/L							
Zinc	ND	0.020	mg/L							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B103942 - SW-846 3005A										
LCS (B103942-BS1)				Prepared: 08/30/14 Analyzed: 09/02/14						
Silver	0.474	0.0050	mg/L	0.500		94.9	80-120			
LCS (B103942-BS2)				Prepared: 08/30/14 Analyzed: 09/02/14						
Antimony	2.29	0.050	mg/L	2.00		114	80-120			
Arsenic	2.06	0.010	mg/L	2.00		103	80-120			
Barium	1.96	0.050	mg/L	2.00		98.1	80-120			
Beryllium	2.12	0.0040	mg/L	2.00		106	80-120			
Cadmium	2.03	0.0040	mg/L	2.00		101	80-120			
Chromium	2.00	0.010	mg/L	2.00		100	80-120			
Lead	2.07	0.010	mg/L	2.00		103	80-120			
Nickel	2.03	0.010	mg/L	2.00		102	80-120			
Selenium	2.10	0.050	mg/L	2.00		105	80-120			
Thallium	2.01	0.050	mg/L	2.00		100	80-120			
Vanadium	1.90	0.010	mg/L	2.00		94.9	80-120			
Zinc	2.04	0.020	mg/L	2.00		102	80-120			
LCS Dup (B103942-BSD1)				Prepared: 08/30/14 Analyzed: 09/02/14						
Silver	0.464	0.0050	mg/L	0.500		92.8	80-120	2.28	20	
LCS Dup (B103942-BSD2)				Prepared: 08/30/14 Analyzed: 09/02/14						
Antimony	2.26	0.050	mg/L	2.00		113	80-120	1.33	20	
Arsenic	2.03	0.010	mg/L	2.00		102	80-120	1.42	20	
Barium	1.94	0.050	mg/L	2.00		96.9	80-120	1.28	20	
Beryllium	2.09	0.0040	mg/L	2.00		105	80-120	1.21	20	
Cadmium	2.00	0.0040	mg/L	2.00		100	80-120	1.18	20	
Chromium	1.98	0.010	mg/L	2.00		98.8	80-120	1.20	20	
Lead	2.03	0.010	mg/L	2.00		102	80-120	1.59	20	
Nickel	2.01	0.010	mg/L	2.00		100	80-120	1.27	20	
Selenium	2.07	0.050	mg/L	2.00		103	80-120	1.63	20	
Thallium	1.98	0.050	mg/L	2.00		98.9	80-120	1.45	20	
Vanadium	1.87	0.010	mg/L	2.00		93.7	80-120	1.29	20	
Zinc	2.01	0.020	mg/L	2.00		101	80-120	1.61	20	
Batch B103995 - SW-846 3050B										
Blank (B103995-BLK1)				Prepared: 09/02/14 Analyzed: 09/03/14						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B103995 - SW-846 3050B										
LCS (B103995-BS1)				Prepared: 09/02/14 Analyzed: 09/03/14						
Antimony	121	5.0	mg/Kg wet	116		104	0-210.3			
Arsenic	138	5.0	mg/Kg wet	122		113	77.8-122.1			
Barium	181	5.0	mg/Kg wet	167		108	82-117.4			
Beryllium	53.4	0.50	mg/Kg wet	54.3		98.3	82.3-117.7			
Cadmium	98.6	0.50	mg/Kg wet	88.0		112	81.9-118.2			
Chromium	115	1.0	mg/Kg wet	102		112	78.7-120.6			
Lead	99.2	1.5	mg/Kg wet	94.5		105	82.4-117.8			
Nickel	60.6	1.0	mg/Kg wet	56.3		108	82.2-117.8			
Selenium	172	10	mg/Kg wet	157		110	77.1-122.3			
Silver	33.9	1.0	mg/Kg wet	34.2		99.0	74.3-125.4			
Thallium	120	5.0	mg/Kg wet	116		104	78.2-121.6			
Vanadium	74.6	2.0	mg/Kg wet	67.1		111	64.8-135.2			
Zinc	219	2.0	mg/Kg wet	207		106	79.7-120.8			
LCS Dup (B103995-BSD1)				Prepared: 09/02/14 Analyzed: 09/03/14						
Antimony	114	5.0	mg/Kg wet	116		98.2	0-210.3	6.10	30	
Arsenic	138	5.0	mg/Kg wet	122		113	77.8-122.1	0.0833	30	
Barium	184	5.0	mg/Kg wet	167		110	82-117.4	1.56	30	
Beryllium	53.9	0.50	mg/Kg wet	54.3		99.4	82.3-117.7	1.05	30	
Cadmium	100	0.50	mg/Kg wet	88.0		114	81.9-118.2	1.48	30	
Chromium	114	0.99	mg/Kg wet	102		112	78.7-120.6	0.119	30	
Lead	100	1.5	mg/Kg wet	94.5		106	82.4-117.8	1.08	30	
Nickel	61.7	0.99	mg/Kg wet	56.3		110	82.2-117.8	1.91	30	
Selenium	175	9.9	mg/Kg wet	157		112	77.1-122.3	1.55	30	
Silver	34.2	0.99	mg/Kg wet	34.2		100	74.3-125.4	1.07	30	
Thallium	123	5.0	mg/Kg wet	116		106	78.2-121.6	1.91	30	
Vanadium	72.7	2.0	mg/Kg wet	67.1		108	64.8-135.2	2.49	30	
Zinc	220	2.0	mg/Kg wet	207		106	79.7-120.8	0.218	30	
MRL Check (B103995-MRL1)				Prepared: 09/02/14 Analyzed: 09/03/14						
Lead	0.795	0.74	mg/Kg wet	0.737		108	80-120			
Batch B104104 - SW-846 7471										
Blank (B104104-BLK1)				Prepared: 09/03/14 Analyzed: 09/04/14						
Mercury	ND	0.025	mg/Kg wet							
LCS (B104104-BS1)				Prepared: 09/03/14 Analyzed: 09/04/14						
Mercury	5.77	0.36	mg/Kg wet	5.76		100	71.2-128.6			
LCS Dup (B104104-BSD1)				Prepared: 09/03/14 Analyzed: 09/04/14						
Mercury	6.07	0.38	mg/Kg wet	5.76		105	71.2-128.6	4.96	30	

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B104104 - SW-846 7471										
Duplicate (B104104-DUP1)		**Source: 14H1358-04**		Prepared: 09/03/14 Analyzed: 09/04/14						
Mercury	0.108	0.030	mg/Kg dry		0.0923			15.4	35	
Matrix Spike (B104104-MS1)		**Source: 14H1358-04**		Prepared: 09/03/14 Analyzed: 09/04/14						
Mercury	0.299	0.030	mg/Kg dry	0.199	0.0923	104	75-125			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B104092 - % Solids										
Duplicate (B104092-DUP1)		**Source: 14H1358-05**		Prepared: 09/03/14 Analyzed: 09/04/14						
% Solids	86.4		% Wt		85.7			0.813	20	
Duplicate (B104092-DUP2)		**Source: 14H1358-19**		Prepared: 09/03/14 Analyzed: 09/04/14						
% Solids	93.9		% Wt		93.4			0.534	20	
Batch B104291 - MA DEP PAC										
Blank (B104291-BLK1)				Prepared & Analyzed: 09/04/14						
Cyanide (PAC)	ND	0.50	mg/Kg wet							
LCS (B104291-BS1)				Prepared & Analyzed: 09/04/14						
Cyanide (PAC)	33	0.50	mg/Kg wet	36.2		90.2	80-120			
LCS-N Prussian Blue	1.4		mg/Kg wet	36.2		3.73	0-10			
LCS Dup (B104291-BSD1)				Prepared & Analyzed: 09/04/14						
Cyanide (PAC)	33	0.50	mg/Kg wet	36.2		89.9	80-120	0.321	20	
Matrix Spike (B104291-MS1)		**Source: 14H1358-19**		Prepared & Analyzed: 09/04/14						
Cyanide (PAC)	17	0.51	mg/Kg dry	16.9	0.55	97.0	75-125			
Matrix Spike Dup (B104291-MSD1)		**Source: 14H1358-19**		Prepared & Analyzed: 09/04/14						
Cyanide (PAC)	18	0.50	mg/Kg dry	16.6	0.55	102	75-125	3.09	35	
Batch B104292 - MA DEP PAC										
Blank (B104292-BLK1)				Prepared & Analyzed: 09/04/14						
Cyanide (PAC)	ND	0.010	mg/L							
LCS (B104292-BS1)				Prepared & Analyzed: 09/04/14						
Cyanide (PAC)	0.65	0.010	mg/L	0.724		90.2	80-120			
LCS-N Prussian Blue	0.027		mg/L	0.724		3.73	1-10			
LCS Dup (B104292-BSD1)				Prepared & Analyzed: 09/04/14						
Cyanide (PAC)	0.65	0.010	mg/L	0.724		89.9	80-120	0.321	20	
Matrix Spike (B104292-MS1)		**Source: 14H1358-20**		Prepared & Analyzed: 09/04/14						
Cyanide (PAC)	0.33	0.010	mg/L	0.332	ND	99.6	75-125			
Matrix Spike Dup (B104292-MSD1)		**Source: 14H1358-20**		Prepared & Analyzed: 09/04/14						
Cyanide (PAC)	0.34	0.010	mg/L	0.332	ND	102	75-125	2.50	20	

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

1227140827-06

Lab Sample ID: 14H1358-06

Date(s) Analyzed: 08/30/2014 08/30/2014

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.13	
	2	0.00	0.00	0.00	0.13	3.0

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

1227140827-10

Lab Sample ID: 14H1358-10 Date(s) Analyzed: 08/30/2014 08/30/2014

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.42	
	2	0.00	0.00	0.00	0.27	42.8

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

1227140827-11

Lab Sample ID: 14H1358-11

Date(s) Analyzed: 08/30/2014 08/30/2014

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.23	
	2	0.00	0.00	0.00	0.21	7.3

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

1227140827-12

Lab Sample ID: 14H1358-12 Date(s) Analyzed: 08/30/2014 08/30/2014

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.26	
	2	0.00	0.00	0.00	0.30	14.3

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

1227140827-14

Lab Sample ID: 14H1358-14

Date(s) Analyzed: 08/30/2014 08/30/2014

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.60	
	2	0.00	0.00	0.00	0.52	14.3

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

1227140827-15

Lab Sample ID: 14H1358-15

Date(s) Analyzed: 08/30/2014 08/30/2014

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.18	
	2	0.00	0.00	0.00	0.17	6.3

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

1227140827-17

Lab Sample ID: 14H1358-17

Date(s) Analyzed: 08/30/2014 08/30/2014

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.30	
	2	0.00	0.00	0.00	0.25	18.8

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

1227140827-18

Lab Sample ID: 14H1358-18

Date(s) Analyzed: 08/30/2014 08/30/2014

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.26	
	2	0.00	0.00	0.00	0.23	13.8

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

1227140827-19

Lab Sample ID: 14H1358-19 Date(s) Analyzed: 08/30/2014 08/30/2014

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.27	
	2	0.00	0.00	0.00	0.23	14.1

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B103913-BS1

Date(s) Analyzed: 08/30/2014 08/30/2014

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.21	
	2	0.00	0.00	0.00	0.21	0
Aroclor-1260	1	0.00	0.00	0.00	0.20	
	2	0.00	0.00	0.00	0.20	2

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B103913-BSD1 Date(s) Analyzed: 08/30/2014 08/30/2014

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.22	
	2	0.00	0.00	0.00	0.22	1
Aroclor-1260	1	0.00	0.00	0.00	0.21	
	2	0.00	0.00	0.00	0.20	4

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B103913-MS1 Date(s) Analyzed: 08/30/2014 08/30/2014

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.21	
	2	0.00	0.00	0.00	0.21	1
Aroclor-1260	1	0.00	0.00	0.00	0.43	
	2	0.00	0.00	0.00	0.40	7

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B103913-MSD1 Date(s) Analyzed: 08/30/2014 08/30/2014

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.23	
	2	0.00	0.00	0.00	0.23	1
Aroclor-1260	1	0.00	0.00	0.00	0.47	
	2	0.00	0.00	0.00	0.43	9

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B104021-BS1 Date(s) Analyzed: 09/03/2014 09/03/2014

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.42	
	2	0.00	0.00	0.00	0.49	16
Aroclor-1260	1	0.00	0.00	0.00	0.43	
	2	0.00	0.00	0.00	0.43	1

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B104021-BSD1 Date(s) Analyzed: 09/03/2014 09/03/2014

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.35	
	2	0.00	0.00	0.00	0.38	7
Aroclor-1260	1	0.00	0.00	0.00	0.34	
	2	0.00	0.00	0.00	0.36	5

con-test® ANALYTICAL LABORATORY

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-09	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-08	Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.
S-03	Surrogate recovery outside of control limits due to suspected sample matrix interference.
S-19	Surrogate recovery is outside of control limits, matrix interference suspected. Reanalysis yielded similar surrogate non-conformance.
S-26	Surrogate outside of control limits.
Z-01	Surrogate recovery is outside of control limits in BS/MS spiked sample.

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA,ME,ME,NH-P
C19-C36 Aliphatics	CT,NC,WA,ME,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
Acenaphthene	CT,NC,WA,ME,ME,NH-P
Acenaphthylene	CT,NC,WA,ME,ME,NH-P
Anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)pyrene	CT,NC,WA,ME,ME,NH-P
Benzo(b)fluoranthene	CT,NC,WA,ME,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,WA,ME,ME,NH-P
Benzo(k)fluoranthene	CT,NC,WA,ME,ME,NH-P
Chrysene	CT,NC,WA,ME,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,WA,ME,ME,NH-P
Fluoranthene	CT,NC,WA,ME,ME,NH-P
Fluorene	CT,NC,WA,ME,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME,ME,NH-P
2-Methylnaphthalene	CT,NC,WA,ME,ME
Naphthalene	CT,NC,WA,ME,ME,NH-P
Phenanthrene	CT,NC,WA,ME,ME,NH-P
Pyrene	CT,NC,WA,ME,ME,NH-P
MADEP-EPH-04-1.1 in Water	
C9-C18 Aliphatics	CT,NC,WA,ME,NH-P
C19-C36 Aliphatics	CT,NC,WA,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME,NH-P
C11-C22 Aromatics	CT,NC,WA,ME,NH-P
Acenaphthene	CT,NC,WA,ME,NH-P
Acenaphthylene	CT,NC,WA,ME,NH-P
Anthracene	CT,NC,WA,ME,NH-P
Benzo(a)anthracene	CT,NC,WA,ME,NH-P
Benzo(a)pyrene	CT,NC,WA,ME,NH-P
Benzo(b)fluoranthene	CT,NC,WA,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,WA,ME,NH-P
Benzo(k)fluoranthene	CT,NC,WA,ME,NH-P
Chrysene	CT,NC,WA,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,WA,ME,NH-P
Fluoranthene	CT,NC,WA,ME,NH-P
Fluorene	CT,NC,WA,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME,NH-P
2-Methylnaphthalene	CT,NC,WA,ME
Naphthalene	CT,NC,WA,ME,NH-P
Phenanthrene	CT,NC,WA,ME,NH-P
Pyrene	CT,NC,WA,ME,NH-P
SW-846 6010C in Soil	
Antimony	CT,NH,NY,NC,ME,VA,NJ
Arsenic	CT,NH,NY,ME,NC,VA,NJ

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Soil	
Barium	CT,NH,NY,ME,NC,VA,NJ
Beryllium	CT,NH,NY,ME,NC,VA,NJ
Cadmium	CT,NH,NY,ME,NC,VA,NJ
Chromium	CT,NH,NY,ME,NC,VA,NJ
Lead	CT,NH,NY,AIHA,ME,NC,VA,NJ
Nickel	CT,NH,NY,ME,NC,VA,NJ
Selenium	CT,NH,NY,ME,NC,VA,NJ
Silver	CT,NH,NY,ME,NC,VA,NJ
Thallium	CT,NH,NY,ME,NC,VA,NJ
Vanadium	CT,NH,NY,ME,NC,VA,NJ
Zinc	CT,NH,NY,ME,NC,VA,NJ
SW-846 6010C in Water	
Antimony	CT,NH,NY,ME,NC,VA,NJ
Arsenic	CT,NH,NY,ME,NC,VA,RI
Barium	CT,NH,NY,ME,NC,VA,NJ
Beryllium	CT,NH,NY,ME,NC,VA,NJ
Cadmium	CT,NH,NY,ME,NC,VA,NJ
Chromium	CT,NH,NY,ME,NC,VA,NJ
Lead	CT,NH,NY,NC,ME,VA,NJ
Nickel	CT,NH,NY,ME,NC,VA,NJ
Selenium	CT,NH,NY,ME,NC,VA,NJ
Silver	CT,NH,NY,ME,NC,VA,NJ
Thallium	CT,NH,NY,NC,VA,NJ
Vanadium	CT,NH,NY,ME,NC,VA,NJ
Zinc	CT,NH,NY,ME,NC,VA,NJ
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA,NJ
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA,NJ
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1262	NC

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,NJ
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2015
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2015
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

Table of Contents

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

☐ 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☒ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY

14H1358

☐ Other _____

CHAIN-OF-CUSTODY RECORD 29648

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (____ days) *Surcharge Applies

Project Name	Project Location	Project Number	Laboratory
Mary Dennison Park	Framingham, MA	20081389.M20	Con-Test

Report To: David Foss and Tim Clinton

Invoice To: Same

P.O. No.: 12272008138 9M20

Sampler's Signature: [signature] Date: 8/27/14

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete

X=Other _____

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	CAM14 Metals - 6010/7471	PCBs - 8082	EPH w/ target PAH - MassDEP	Phys. Available Cyanide - MassDEP/SW-846	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water ☐ $Na(SO_4)_2$	Glass Soil Container (8) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is	Plastic - As is, ☐ 250 ml ☐ 500 ml ☐ H_2SO_4	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml ☐ 1000 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45	Plastic - NaOH, 250 ml	Comments
1	✓	✓	✓	✓	1227140827-01	S	8/27/14	0745	✓	✓	✓	X — no cyanide DC			2									SS-101
2	↓	↓	↓	↓	-02	↓	↓	0748	↓	↓	↓	X			2									SS-102
3					-03			0805				X			2									SS-103
4					-04			0910				X			2									SS-111
5					-05			0940				X			2									SS-113
6					-06			1030				X no cyanide DC			2									SS-121
7					-07			1215				X			2									SS-126
8					-08			1350				X			2									SS-138
9					-09			1350				X			2									SS-138D
10	↓	↓	↓	↓	-10	↓	↓	1545	↓	↓	↓	X no cyanide DC			2									SS-141

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	[signature]	8/27/14	1900
2	DMHB	fridge	8/27/14	1900
3	fridge	[signature]	8/28/14	1100
4	[signature]	R Sean	8/28/14	1100

R Tean 8/28/14 16:08 [signature] 4.9° 16:08 8/28/14

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____
____ Duplicates ____ Blanks (Item Nos:)

Reporting and Detection Limit Requirements: ☐ RCP Deliverables ☒ MCP CAM Cert.
MCP Method 1 S-1

Additional Comments: analyze for cyanide (Phys. Avail.): -02, -04, -07, -08, -09
Target Sept 8 for data delivery. Do not send data on Sept 5.

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

☐ 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☒ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY

14H1358

☐ Other _____

CHAIN-OF-CUSTODY RECORD 29650

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (____ days) *Surcharge Applies

Project Name	Project Location	Project Number	Laboratory
Mary Dennison Park	Framingham, MA	20081389.M20	Con-Test

Report To: David Foss and Tim Clinton

Invoice To: Same

P.O. No.: ~~1227140827~~ 1227200813 89M20

Sampler's Signature: [signature] Date: 8/27/14

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Equip. Blank

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	CAM 14 Metals - 6010/7471	PCBs - 8082	EPH w/ target PAH - MassDEP	Phys. Available Cyanide - MassDEP/SW-846					Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water ☐ $Na(SO_4)_2$	Glass Soil Container (8) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber (1000) ml, ☐ As is, ☐ H_2SO_4	Plastic - As is, (250) ml, ☐ As is ☐ H_2SO_4	~~Plastic - H_2SO_4, ☐ 250 ml ☒ 500 ml ☐ 1000 ml~~	Plastic - HNO_3, 250 ml ~~☐ Filtered ☐ 0.45~~	Plastic - NaOH, 250 ml	Comments
11	✓	✓	✓	✓	1227140827-11	S	8/27/14	1255	✓	✓	✓	X						2										SS-143
12	✓	↓	↓	↓	-12	S	↓	1550	↓	↓	↓	X						2										SS-154
13	✓	↓	↓	↓	-13	S	↓	1500	↓	↓	↓	X						2										SS-156
14	✓	↓	↓	↓	-14	S	↓	1605	↓	↓	↓	X	no cyanide TJC					2										SS-160
15	✓	↓	↓	↓	-15	S	↓	1615	↓	↓	↓	X						2										SS-161
16	✓	↓	↓	↓	-16	S	↓	1625	↓	↓	↓	X	no cyanide TJC					2										SS-162
17	✓	↓	↓	↓	-17	S	↓	1620	↓	↓	↓	X						2										SS-163
18	✓	↓	↓	↓	-18	S	↓	1620	↓	↓	↓	X	no cyanide TJC					2										SS-163D
19	✓	↓	↓	↓	-19	S	↓	1630	↓	↓	↓	X						4										SS-164 MS/MSD
20	✓	↓	↓	↓	-20	X	↓	1700	↓	↓	↓	X										2	1		1	2		Equip Blank

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	[signature]	8/27/14	1900
2	TMHB	Fridge	8/27/14	1900
3	Fridge	[signature]	8/28/14	1100
4	[signature]	R Jean	8/28/14	1100

R Jean 8/28/14 16:08 [signature] 4.9° 16:08 8/28/14

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____
____ Duplicates ____ Blanks (Item Nos:)

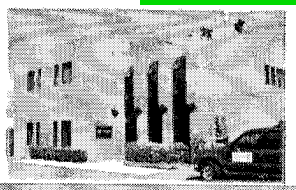
Reporting and Detection Limit Requirements: ☐ RCP Deliverables ☒ MCP CAM Cert.

MCP Method 1 S-1

Additional Comments: * Item No. 19 Matrix Spike / Matrix Spike Duplicate analyze for PAC: -11, -12, -13, -15, -19, -20 Target Sept 8 for data delivery. Do not send data on Sept 5.

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: Fuss + O'Neil RECEIVED BY: MJ DATE: 8/28/14

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
2) Does the chain agree with the samples? Yes No
   If not, explain:
3) Are all the samples in good condition? Yes No
   If not, explain:
4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.9°C

5) Are there Dissolved samples for the lab to filter? Yes No
   Who was notified _____ Date _____ Time _____
6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
   Who was notified _____ Date _____ Time _____
7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____
9) Do all samples have the proper Base pH: Yes No N/A _____
10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	2	8 oz amber/clear jar	40
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic	1	SOC Kit	
250 mL plastic	3	Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved

Time and Date Frozen:

Doc# 277
Rev. 4 August 2013

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** **Date/Time:**

MJ 8/28/14 16:08

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 14H1358
Project Location: Mary Dennison Park	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

14H1358-01 thru 14H1358-20

Matrices: Soil Water

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A (X)	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A (X)	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☑ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 09/09/14

Limitations of Work Product

This document was prepared for the sole use of the Town of Framingham, the only intended beneficiaries of our work. Those who may use or rely upon the report and the services (hereafter "work product") performed by Fuss & O'Neill, Inc. and/or its subsidiaries or independent professional associates, subconsultants and subcontractors (collectively the "Consultant") expressly accept the work product upon the following specific conditions.

1. Consultant represents that it prepared the work product in accordance with the professional and industry standards prevailing at the time such services were rendered.

2. The work product may contain information that is time sensitive. The work product was prepared by Consultant subject to the particular scope limitations, budgetary and time constraints and business objectives of the Client which are detailed therein or in the contract between Consultant and Client. Changes in use, tenants, work practices, storage, Federal, state or local laws, rules or regulations may affect the work product.

3. The observations described and upon which the work product was based were made under the conditions stated therein. Any conclusions presented in the work product were based solely upon the services described therein, and not on scientific or engineering tasks or procedures beyond the scope of described services.

4. In preparing its work product, Consultant may have relied on certain information provided by state and local officials and information and representations made by other parties referenced therein, and on information contained in the files of state and/or local agencies made available at the time of the project. To the extent that such files which may affect the conclusions of the work product are missing, incomplete, inaccurate or not provided, Consultant is not responsible. Although there may have been some degree of overlap in the information provided by these various sources, Consultant did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this project. Consultant assumes no responsibility or liability to discover or determine any defects in such information which could result in failure to identify contamination or other defect in, at or near the site. Unless specifically stated in the work product, Consultant assumes no responsibility or liability for the accuracy of drawings and reports obtained, received or reviewed.

5. If the purpose of this project was to assess the physical characteristics of the subject site with respect to the presence in the environment of hazardous substances, waste or petroleum and chemical products and wastes as defined in the work product, unless otherwise noted, no specific attempt was made to check the compliance of present or past owners or operators of the subject site with Federal, state, or local laws and regulations, environmental or otherwise.

6. If water level readings have been made, these observations were made at the times and under the conditions stated in the report. However, it must be noted that fluctuations in water levels may occur due to variations in rainfall, passage of time and other factors and such fluctuations may affect the conclusions and recommendations presented herein.

7. Except as noted in the work product, no quantitative laboratory testing was performed as part of the project. Where such analyses have been conducted by an outside laboratory, Consultant has relied upon the data provided and, unless otherwise described in the work product, has not conducted an independent evaluation of the reliability of these tests.

8. If the conclusions and recommendations contained in the work product are based, in part, upon various types of chemical data, then the conclusions and recommendations are contingent upon the validity of such data. These data (if obtained) have been reviewed and interpretations made by Consultant. If indicated in the work product, some of these data may be preliminary or screening-level data and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time and other factors.

9. Chemical analyses may have been performed for specific parameters during the course of this project, as described in the work product. However, it should be noted that additional chemical constituents not included in the analyses conducted for the project may be present in soil, groundwater, surface water, sediments or building materials at the subject site.

10. Ownership and property interests of all documents, including reports, electronic media, drawings and specifications, prepared or furnished by Consultant pursuant to this project are subject to the terms and conditions specified in the contract between the Consultant and Client, whether or not the project is completed.

11. Unless otherwise specifically noted in the work product or a requirement of the contract between the Consultant and Client, any reuse, modification or disbursement of documents to third parties will be at the sole risk of the third party and without liability or legal exposure to Consultant.

12. In the event that any questions arise with respect to the scope or meaning of Consultant's work product, immediately contact Consultant for clarification, explanation or to update the work product. In addition, Consultant has the right to verify, at the party's expense, the accuracy of the information contained in the work product, as deemed necessary by Consultant, based upon the passage of time or other material change in conditions since conducting the work.

13. Any use of or reliance on the work product shall constitute acceptance of the terms hereof.