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Waste Stockpile Area

Analytical Report

CET # 11060055

Report Date: June 21, 2011
Client Project: SUT, Town of Stamford
Client Project #: 155171

Connecticut Laboratory Certification PH 0116
Massachusetts Laboratory Certification M-CT903
Rhode Island Certification 199

New York Certification 11982
Florida Laboratory Certification E871064

SAMPLE SUMMARY:

This report contains analytical data associated with the following samples only:

CETID	Client Sample ID	Matrix	Collection Date	Collection Time	Receipt Date
AE71355	ET1 WSA Myrtle 1	Soil	6/2/2011	10:40	06/02/2011
AE71356	ET1 WSA Myrtle 2	Soil	6/2/2011	10:50	06/02/2011
AE71357	ET1 WSA Myrtle 3	Soil	6/2/2011	11:00	06/02/2011
AE71358	ET1 WSA Myrtle 4	Soil	6/2/2011	11:10	06/02/2011
AE71359	ET1 WSA Myrtle 5	Soil	6/2/2011	11:20	06/02/2011
AE71360	ET1 WSA Myrtle 6	Soil	6/2/2011	11:30	06/02/2011
AE71361	ET1 WSA Myrtle 7	Soil	6/2/2011	11:40	06/02/2011

Sample temperature upon receipt was 1.2 degrees C

PREP ANALYSIS:

Acid Digestion [EPA 3050B]

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
CET ID	AE71355	AE71356	AE71357	AE71358
Date Analyzed	6/6/2011	6/6/2011	6/6/2011	6/6/2011

Acid Digestion [EPA 3050B]

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
CET ID	AE71359	AE71360	AE71361
Date Analyzed	6/6/2011	6/6/2011	6/6/2011

Accelerated Solvent Ext. SVOC [EPA 3545A]

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
CET ID	AE71355	AE71356	AE71357	AE71358
Date Analyzed	6/3/2011	6/3/2011	6/3/2011	6/3/2011

Accelerated Solvent Ext. SVOC [EPA 3545A]

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
CET ID	AE71359	AE71360	AE71361
Date Analyzed	6/7/2011	6/7/2011	6/7/2011

Accelerated Solv Ext.- Hebicides [EPA 3545]

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
CET ID	AE71355	AE71356	AE71357	AE71358
Date Analyzed	6/3/2011	6/3/2011	6/3/2011	6/3/2011

Accelerated Solv Ext.- Hebicides [EPA 3545]

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
CET ID	AE71359	AE71360	AE71361
Date Analyzed	6/3/2011	6/3/2011	6/3/2011

Accelerated Solvent Ext.- PCBs [EPA 3545]

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
CET ID	AE71355	AE71356	AE71357	AE71358
Date Analyzed	6/3/2011	6/3/2011	6/3/2011	6/3/2011

Accelerated Solvent Ext.- PCBs [EPA 3545]

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
CET ID	AE71359	AE71360	AE71361
Date Analyzed	6/3/2011	6/3/2011	6/3/2011

Accelerated Solvent Ext.- Pest [EPA 3545]

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
CET ID	AE71355	AE71356	AE71357	AE71358
Date Analyzed	6/3/2011	6/3/2011	6/3/2011	6/3/2011

Accelerated Solvent Ext.- Pest [EPA 3545]

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
CET ID	AE71359	AE71360	AE71361
Date Analyzed	6/3/2011	6/3/2011	6/3/2011

Ultrasonic Extraction-ETPH [EPA 3550C]

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
CET ID	AE71355	AE71356	AE71357	AE71358
Date Analyzed	6/6/2011	6/6/2011	6/6/2011	6/6/2011

Ultrasonic Extraction-ETPH [EPA 3550C]

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
CET ID	AE71359	AE71360	AE71361
Date Analyzed	6/6/2011	6/6/2011	6/6/2011

Closed System P&T Extraction [EPA 5035A]

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
CET ID	AE71355	AE71356	AE71357	AE71358
Date Analyzed	6/3/2011	6/3/2011	6/3/2011	6/3/2011

Closed System P&T Extraction [EPA 5035A]

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
CET ID	AE71359	AE71360	AE71361
Date Analyzed	6/3/2011	6/3/2011	6/3/2011

SPLP, Metals [EPA 1312]

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
CET ID	AE71355	AE71356	AE71357	AE71358
Date Analyzed	6/3/2011	6/3/2011	6/3/2011	6/3/2011

SPLP, Metals [EPA 1312]

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
CET ID	AE71359	AE71360	AE71361
Date Analyzed	6/3/2011	6/3/2011	6/3/2011

ANALYSIS:

SPLP Mercury [EPA 6020A] Units: mg/l

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
CET ID	AE71355	AE71356	AE71357	AE71358
Date Analyzed	6/6/2011	6/6/2011	6/6/2011	6/6/2011
SPLP Mercury	ND < 0.002	ND < 0.002	ND < 0.002	ND < 0.002

SPLP Mercury [EPA 6020A] Units: mg/l

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
CET ID	AE71359	AE71360	AE71361
Date Analyzed	6/6/2011	6/6/2011	6/6/2011
SPLP Mercury	ND < 0.002	ND < 0.002	ND < 0.002

Total Mercury [EPA 7471B] Units: mg/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
CET ID	AE71355	AE71356	AE71357	AE71358
Date Analyzed	6/6/2011	6/6/2011	6/6/2011	6/6/2011
Total Mercury	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.30

Total Mercury [EPA 7471B] Units: mg/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
CET ID	AE71359	AE71360	AE71361
Date Analyzed	6/6/2011	6/6/2011	6/6/2011
Total Mercury	ND < 0.30	ND < 0.30	ND < 0.30

Total Solids [EPA 160.3 mo] Units: percent

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
CET ID	AE71355	AE71356	AE71357	AE71358
Date Analyzed	6/3/2011	6/3/2011	6/3/2011	6/3/2011
Total Solids	85	91	94	93

Total Solids [EPA 160.3 mo] Units: percent

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
CET ID	AE71359	AE71360	AE71361
Date Analyzed	6/7/2011	6/7/2011	6/7/2011
Total Solids	92	94	90

Total Metals [EPA 6010C] Units: mg/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
CET ID	AE71355	AE71356	AE71357	AE71358
Date Analyzed	6/6/2011	6/6/2011	6/6/2011	6/6/2011
Dilution	1.0	1.0	1.0	1.0
Lead	59	41	32	35
Selenium	ND < 1.5	ND < 1.5	ND < 1.5	ND < 1.5
Cadmium	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0
Chromium	22	23	28	25
Arsenic	4.4	2.9	3.2	4.4
Silver	ND < 2.5	ND < 2.5	ND < 2.5	ND < 2.5
Copper	31	25	22	22
Nickel	17	16	16	15
Zinc	100	68	71	58
Beryllium	ND < 1.5	ND < 1.5	ND < 1.5	ND < 1.5
Antimony	ND < 2.5	ND < 2.5	ND < 2.5	ND < 2.5
Thallium	ND < 2.5	ND < 2.5	ND < 2.5	ND < 2.5

Total Metals [EPA 6010C] Units: mg/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
CET ID	AE71359	AE71360	AE71361
Date Analyzed	6/6/2011	6/6/2011	6/6/2011
Dilution	1.0	1.0	1.0
Lead	20	27	45
Selenium	ND < 1.5	ND < 1.5	ND < 1.5
Cadmium	ND < 1.0	ND < 1.0	ND < 1.0
Chromium	19	24	25
Arsenic	2.0	2.6	2.8
Silver	ND < 2.5	ND < 2.5	ND < 2.5
Copper	16	16	25
Nickel	12	16	17
Zinc	50	63	83
Beryllium	ND < 1.5	ND < 1.5	ND < 1.5
Antimony	ND < 2.5	ND < 2.5	ND < 2.5
Thallium	ND < 2.5	ND < 2.5	ND < 2.5

SPLP Metals [EPA 6020A] Units: mg/l

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
CET ID	AE71355	AE71356	AE71357	AE71358
Date Analyzed	6/6/2011	6/6/2011	6/6/2011	6/6/2011
Dilution	1.0	1.0	1.0	1.0
Lead	0.027	0.055	0.022	0.057
Selenium	ND < 0.01	ND < 0.01	ND < 0.01	ND < 0.01
Cadmium	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005
Chromium	ND < 0.05	ND < 0.05	ND < 0.05	ND < 0.05
Arsenic	ND < 0.009	ND < 0.009	ND < 0.009	ND < 0.009
Silver	ND < 0.02	ND < 0.02	ND < 0.02	ND < 0.02
Copper	ND < 0.04	ND < 0.04	ND < 0.04	ND < 0.04
Nickel	ND < 0.05	ND < 0.05	ND < 0.05	ND < 0.05
Zinc	0.058	0.062	0.032	0.070
Beryllium	ND < 0.004	ND < 0.004	ND < 0.004	ND < 0.004
Antimony	ND < 0.006	ND < 0.006	ND < 0.006	ND < 0.006
Thallium	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005

SPLP Metals [EPA 6020A] Units: mg/l

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
CET ID	AE71359	AE71360	AE71361
Date Analyzed	6/6/2011	6/6/2011	6/6/2011
Dilution	1.0	1.0	1.0
Lead	0.019	0.014	0.051
Selenium	ND < 0.01	ND < 0.01	ND < 0.01
Cadmium	ND < 0.005	ND < 0.005	ND < 0.005
Chromium	ND < 0.05	ND < 0.05	ND < 0.05
Arsenic	ND < 0.009	ND < 0.009	ND < 0.009
Silver	ND < 0.02	ND < 0.02	ND < 0.02
Copper	ND < 0.04	ND < 0.04	ND < 0.04
Nickel	ND < 0.05	ND < 0.05	ND < 0.05
Zinc	0.046	0.066	0.063
Beryllium	ND < 0.004	ND < 0.004	ND < 0.004
Antimony	ND < 0.006	ND < 0.006	ND < 0.006
Thallium	ND < 0.005	ND < 0.005	ND < 0.005

SPLP Metals by ICP/MS Dup [EPA 6020A] Units: mg/l

Client ID	ET1 WSA Myrtle 1
CET ID	AE71355
Date Analyzed	6/6/2011
Dilution	1.0
Lead	0.024
Selenium	ND < 0.01
Cadmium	ND < 0.005
Chromium	ND < 0.05
Arsenic	ND < 0.009
Silver	ND < 0.02
Copper	ND < 0.04
Nickel	ND < 0.05
Zinc	0.044
Beryllium	ND < 0.004
Antimony	ND < 0.006
Thallium	ND < 0.005

EPA 8081B Chlorinated Pesticides [EPA 8081B] Units: ug/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
CET ID	AE71355	AE71356	AE71357	AE71358
Date Analyzed	6/11/2011	6/11/2011	6/11/2011	6/11/2011
Dilution	1	1	1	1
Alpha-BHC	ND < 59	ND < 55	ND < 54	ND < 54
Gamma-BHC	ND < 24	ND < 22	ND < 22	ND < 22
Heptachlor	ND < 10	ND < 9.0	ND < 9.0	ND < 9.0
Aldrin	ND < 30	ND < 28	ND < 27	ND < 27
Beta-BHC	ND < 59	ND < 55	ND < 54	ND < 54
Delta-BHC	ND < 59	ND < 55	ND < 54	ND < 54
Heptachlor Epoxide	ND < 15	ND < 14	ND < 13	ND < 13
Endosulfan I	ND < 59	ND < 55	ND < 54	ND < 54
4,4-DDE	ND < 24	ND < 22	ND < 22	ND < 22
Dieldrin	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0
Endrin	ND < 59	ND < 55	ND < 54	ND < 54
4,4-DDD	ND < 36	ND < 33	ND < 32	ND < 33
Endosulfan II	ND < 59	ND < 55	ND < 54	ND < 54
4,4-DDT	ND < 24	ND < 22	ND < 22	ND < 22
Endrin Aldehyde	ND < 59	ND < 55	ND < 54	ND < 54
4,4-Methoxychlor	ND < 59	ND < 55	ND < 54	ND < 54
Endosulfan Sulfate	ND < 59	ND < 55	ND < 54	ND < 54
Endrin Ketone	ND < 59	ND < 55	ND < 54	ND < 54
Chlordane	ND < 48	ND < 44	ND < 43	ND < 44
Toxaphene	ND < 240	ND < 220	ND < 220	ND < 220
TCMX (Surr 1) 50-150	75	82	96	64
DCB (Surr 2) 50-150	72	61	64	55

EPA 8081B Chlorinated Pesticides [EPA 8081B] Units: ug/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
CET ID	AE71359	AE71360	AE71361
Date Analyzed	6/11/2011	6/11/2011	6/11/2011
Dilution	1	1	1
Alpha-BHC	ND < 55	ND < 54	ND < 56
Gamma-BHC	ND < 22	ND < 22	ND < 23
Heptachlor	ND < 9.0	ND < 9.0	ND < 9.0
Aldrin	ND < 28	ND < 27	ND < 28
Beta-BHC	ND < 55	ND < 54	ND < 56
Delta-BHC	ND < 55	ND < 54	ND < 56
Heptachlor Epoxide	ND < 14	ND < 13	ND < 14
Endosulfan I	ND < 55	ND < 54	ND < 56
4,4-DDE	ND < 22	ND < 22	ND < 23
Dieldrin	ND < 5.0	ND < 5.0	ND < 5.0
Endrin	ND < 55	ND < 54	ND < 56
4,4-DDD	ND < 33	ND < 32	ND < 34
Endosulfan II	ND < 55	ND < 54	ND < 56
4,4-DDT	ND < 22	ND < 22	ND < 23
Endrin Aldehyde	ND < 55	ND < 54	ND < 56
4,4-Methoxychlor	ND < 55	ND < 54	ND < 56

EPA 8081B Chlorinated Pesticides [EPA 8081B] Units: ug/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
Endosulfan Sulfate	ND < 55	ND < 54	ND < 56
Endrin Ketone	ND < 55	ND < 54	ND < 56
Chlordane	ND < 44	ND < 43	ND < 45
Toxaphene	ND < 220	ND < 220	ND < 230
TCMX (Surr 1) 50-150	85	80	78
DCB (Surr 2) 50-150	71	57	65

EPA 8082 PCBs [EPA 8082] Units: mg/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
CET ID	AE71355	AE71356	AE71357	AE71358
Date Analyzed	6/8/2011	6/8/2011	6/8/2011	6/8/2011
Dilution	1.0	1.0	1.0	1.0
PCB-1016	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.30
PCB-1221	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.30
PCB-1232	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.30
PCB-1242	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.30
PCB-1248	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.30
PCB-1254	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.30
PCB-1260	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.30
PCB-1268	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.30
TCMX (Surr 1) 50-150	91	96	90	86
DCB (Surr 2) 50-150	94	101	109	95

EPA 8082 PCBs [EPA 8082] Units: mg/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
CET ID	AE71359	AE71360	AE71361
Date Analyzed	6/8/2011	6/8/2011	6/8/2011
Dilution	1.0	1.0	1.0
PCB-1016	ND < 0.30	ND < 0.30	ND < 0.30
PCB-1221	ND < 0.30	ND < 0.30	ND < 0.30
PCB-1232	ND < 0.30	ND < 0.30	ND < 0.30
PCB-1242	ND < 0.30	ND < 0.30	ND < 0.30
PCB-1248	ND < 0.30	ND < 0.30	ND < 0.30
PCB-1254	ND < 0.30	ND < 0.30	ND < 0.30
PCB-1260	ND < 0.30	ND < 0.30	ND < 0.30
PCB-1268	ND < 0.30	ND < 0.30	ND < 0.30
TCMX (Surr 1) 50-150	93	92	94
DCB (Surr 2) 50-150	88	89	111

EPA 8151A Chlorinated Herbicides [EPA 8151A] Units: ug/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
CET ID	AE71355	AE71356	AE71357	AE71358
Date Analyzed	6/13/2011	6/13/2011	6/13/2011	6/13/2011
Dilution	1.0	1.0	1.0	1.0
3,5-Dichlorobenzoic acid	ND < 59	ND < 55	ND < 54	ND < 54
4-Nitrophenol	ND < 295	ND < 275	ND < 266	ND < 269
Dicamba	ND < 59	ND < 55	ND < 54	ND < 54
Dichloroprop	ND < 295	ND < 275	ND < 266	ND < 269
2,4-D	ND < 295	ND < 275	ND < 266	ND < 269
PCP	ND < 30	ND < 28	ND < 27	ND < 27
Silvex	ND < 59	ND < 55	ND < 54	ND < 54
2,4,5-T	ND < 59	ND < 55	ND < 54	ND < 54
Dinoseb	ND < 59	ND < 55	ND < 54	ND < 54
2,4-DB	ND < 589	ND < 550	ND < 532	ND < 538
Picloram	ND < 59	ND < 55	ND < 54	ND < 54
DCPAA (surr) 50-150	109	114	134	98

EPA 8151A Chlorinated Herbicides [EPA 8151A] Units: ug/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
CET ID	AE71359	AE71360	AE71361
Date Analyzed	6/13/2011	6/13/2011	6/13/2011
Dilution	1.0	1.0	1.0
3,5-Dichlorobenzoic acid	ND < 55	ND < 54	ND < 56
4-Nitrophenol	ND < 272	ND < 266	ND < 278
Dicamba	ND < 55	ND < 54	ND < 56
Dichloroprop	ND < 272	ND < 266	ND < 278
2,4-D	ND < 272	ND < 266	ND < 278
PCP	ND < 28	ND < 27	ND < 28
Silvex	ND < 55	ND < 54	ND < 56
2,4,5-T	ND < 55	ND < 54	ND < 56
Dinoseb	ND < 55	ND < 54	ND < 56
2,4-DB	ND < 544	ND < 532	ND < 556
Picloram	ND < 55	ND < 54	ND < 56
DCPAA (surr) 50-150	115	98	105

Semi-Volatile Organics [EPA 8270D] Units: ug/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
CET ID	AE71355	AE71356	AE71357	AE71358
Date Analyzed	6/7/2011	6/7/2011	6/7/2011	6/7/2011
Dilution	1.0	1.0	1.0	1.0
Pyridine	ND < 353	ND < 330	ND < 320	ND < 323
n-Nitroso-dimethylamine	ND < 353	ND < 330	ND < 320	ND < 323
bis(2-Chloroethyl)ether	ND < 353	ND < 330	ND < 320	ND < 323
Phenol	ND < 353	ND < 330	ND < 320	ND < 323
Aniline	ND < 353	ND < 330	ND < 320	ND < 323
2-Chlorophenol	ND < 353	ND < 330	ND < 320	ND < 323
1,3-Dichlorobenzene	ND < 353	ND < 330	ND < 320	ND < 323
1,4-Dichlorobenzene	ND < 353	ND < 330	ND < 320	ND < 323
Benzyl Alcohol	ND < 353	ND < 330	ND < 320	ND < 323

Semi-Volatile Organics [EPA 8270D] Units: ug/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
1,2-Dichlorobenzene	ND < 353	ND < 330	ND < 320	ND < 323
bis(2-chloroisopropyl)ether	ND < 353	ND < 330	ND < 320	ND < 323
Hexachloroethane	ND < 353	ND < 330	ND < 320	ND < 323
N-Nitroso-di-n-propylamine	ND < 353	ND < 330	ND < 320	ND < 323
2-Methyl Phenol	ND < 353	ND < 330	ND < 320	ND < 323
3+4 Methyl Phenol	ND < 353	ND < 330	ND < 320	ND < 323
Nitrobenzene	ND < 353	ND < 330	ND < 320	ND < 323
Isophorone	ND < 353	ND < 330	ND < 320	ND < 323
2-Nitrophenol	ND < 353	ND < 330	ND < 320	ND < 323
2,4-Dimethylphenol	ND < 353	ND < 330	ND < 320	ND < 323
bis(2-Chloroethoxy)methane	ND < 353	ND < 330	ND < 320	ND < 323
Benzoic Acid	ND < 353	ND < 330	ND < 320	ND < 323
2,4-Dichlorophenol	ND < 353	ND < 330	ND < 320	ND < 323
1,2,4-Trichlorobenzene	ND < 353	ND < 330	ND < 320	ND < 323
Naphthalene	ND < 353	ND < 330	ND < 320	ND < 323
2,6-Dichlorophenol	ND < 353	ND < 330	ND < 320	ND < 323
4-Chloroaniline	ND < 353	ND < 330	ND < 320	ND < 323
Hexachlorobutadiene	ND < 353	ND < 330	ND < 320	ND < 323
4-Chloro-3-methylphenol	ND < 353	ND < 330	ND < 320	ND < 323
2-Methyl Naphthalene	ND < 353	ND < 330	ND < 320	ND < 323
Hexachlorocyclopentadiene	ND < 353	ND < 330	ND < 320	ND < 323
2,4,6-Trichlorophenol	ND < 353	ND < 330	ND < 320	ND < 323
2,4,5-Trichlorophenol	ND < 353	ND < 330	ND < 320	ND < 323
2-Chloronaphthalene	ND < 353	ND < 330	ND < 320	ND < 323
2-Nitroaniline	ND < 353	ND < 330	ND < 320	ND < 323
Acenaphthylene	ND < 353	380	ND < 320	ND < 323
Dimethylphthalate	ND < 353	ND < 330	ND < 320	ND < 323
2,6-Dinitrotoluene	ND < 353	ND < 330	ND < 320	ND < 323
4-Nitroaniline	ND < 353	ND < 330	ND < 320	ND < 323
Acenaphthene	ND < 353	ND < 330	ND < 320	ND < 323
2,4-Dinitrophenol	ND < 353	ND < 330	ND < 320	ND < 323
2,4-Dinitrotoluene	ND < 353	ND < 330	ND < 320	ND < 323
4-Nitrophenol	ND < 353	ND < 330	ND < 320	ND < 323
Dibenzofuran	ND < 353	ND < 330	ND < 320	ND < 323
2,3,4,6-Tetrachlorophenol	ND < 353	ND < 330	ND < 320	ND < 323
Fluorene	ND < 353	350	ND < 320	ND < 323
4-Chlorophenyl-phenylether	ND < 353	ND < 330	ND < 320	ND < 323
Diethylphthalate	ND < 353	ND < 330	ND < 320	ND < 323
3-Nitroaniline	ND < 353	ND < 330	ND < 320	ND < 323
4,6-Dinitro-2-methylphenol	ND < 353	ND < 330	ND < 320	ND < 323
n-Nitrosodiphenylamine	ND < 353	ND < 330	ND < 320	ND < 323
Azobenzene	ND < 353	ND < 330	ND < 320	ND < 323
4-Bromophenyl-phenylether	ND < 353	ND < 330	ND < 320	ND < 323
Hexachlorobenzene	ND < 353	ND < 330	ND < 320	ND < 323
Pentachlorophenol	ND < 353	ND < 330	ND < 320	ND < 323
Benzidine	ND < 353	ND < 330	ND < 320	ND < 323
Phenanthrene	ND < 353	3200	ND < 320	390
Anthracene	ND < 353	980	ND < 320	ND < 323
Carbazole	ND < 353	350	ND < 320	ND < 323
Di-n-butylphthalate	ND < 353	ND < 330	ND < 320	ND < 323
Fluoranthene	480	4900	410	1100
Pyrene	490	4100	420	1100
Butylbenzylphthalate	ND < 353	ND < 330	ND < 320	ND < 323

Semi-Volatile Organics [EPA 8270D] Units: ug/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
3,3-Dichlorobenzidine	ND < 353	ND < 330	ND < 320	ND < 323
Benzo[a]anthracene	460	2700	ND < 320	720
Chrysene	550	2500	320	770
bis(2-Ethylhexyl)phthalate	ND < 353	ND < 330	ND < 320	ND < 323
Di-n-octylphthalate	ND < 353	ND < 330	ND < 320	ND < 323
Benzo[b]fluoranthene	870	4200	530	1200
Benzo[k]fluoranthene	450	1800	ND < 320	600
Benzo[a]pyrene	690	3200	420	1000
Indeno[1,2,3-cd]pyrene	ND < 353	1000	ND < 320	350
Dibenz[a,h]anthracene	ND < 353	ND < 330	ND < 320	ND < 323
Benzo[g,h,i]perylene	ND < 353	930	ND < 320	370
2-Fluorophenol (Surr) 30-130	55.5	64.9	65	64.5
Phenol-d5 (Surr) 30-130	57.8	65.2	64.8	64.2
Nitrobenzene-d5(Surr) 30-130	62.8	68.6	64.1	64.7
2-Fluorobiphenyl (Surr) 30-130	58.8	67.4	68.6	67.5
2,4,6-Tribromophenol (Surr) 30-130	65.1	65.2	68.8	66
Terphenyl-d14 (Surr) 30-130	41.5	38.6	42.5	39.7

Semi-Volatile Organics [EPA 8270D] Units: ug/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
CET ID	AE71359	AE71360	AE71361
Date Analyzed	6/8/2011	6/8/2011	6/8/2011
Dilution	1.0	1.0	1.0
Pyridine	ND < 109	ND < 107	ND < 112
n-Nitroso-dimethylamine	ND < 327	ND < 320	ND < 334
bis(2-Chloroethyl)ether	ND < 327	ND < 320	ND < 334
Phenol	ND < 327	ND < 320	ND < 334
Aniline	ND < 327	ND < 320	ND < 334
2-Chlorophenol	ND < 327	ND < 320	ND < 334
1,3-Dichlorobenzene	ND < 327	ND < 320	ND < 334
1,4-Dichlorobenzene	ND < 327	ND < 320	ND < 334
Benzyl Alcohol	ND < 327	ND < 320	ND < 334
1,2-Dichlorobenzene	ND < 327	ND < 320	ND < 334
bis(2-chloroisopropyl)ether	ND < 327	ND < 320	ND < 334
Hexachloroethane	ND < 327	ND < 320	ND < 334
N-Nitroso-di-n-propylamine	ND < 327	ND < 320	ND < 334
2-Methyl Phenol	ND < 327	ND < 320	ND < 334
3+4 Methyl Phenol	ND < 327	ND < 320	ND < 334
Nitrobenzene	ND < 327	ND < 320	ND < 334
Isophorone	ND < 327	ND < 320	ND < 334
2-Nitrophenol	ND < 327	ND < 320	ND < 334
2,4-Dimethylphenol	ND < 327	ND < 320	ND < 334
bis(2-Chloroethoxy)methane	ND < 327	ND < 320	ND < 334
Benzoic Acid	ND < 327	ND < 320	ND < 334
2,4-Dichlorophenol	ND < 327	ND < 320	ND < 334
1,2,4-Trichlorobenzene	ND < 327	ND < 320	ND < 334
Naphthalene	ND < 327	ND < 320	ND < 334
2,6-Dichlorophenol	ND < 327	ND < 320	ND < 334
4-Chloroaniline	ND < 327	ND < 320	ND < 334
Hexachlorobutadiene	ND < 327	ND < 320	ND < 334

Semi-Volatile Organics [EPA 8270D] Units: ug/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
4-Chloro-3-methylphenol	ND < 327	ND < 320	ND < 334
2-Methyl Naphthalene	ND < 327	ND < 320	ND < 334
Hexachlorocyclopentadiene	ND < 327	ND < 320	ND < 334
2,4,6-Trichlorophenol	ND < 327	ND < 320	ND < 334
2,4,5-Trichlorophenol	ND < 327	ND < 320	ND < 334
2-Chloronaphthalene	ND < 327	ND < 320	ND < 334
2-Nitroaniline	ND < 327	ND < 320	ND < 334
Acenaphthylene	560	ND < 320	450
Dimethylphthalate	ND < 327	ND < 320	ND < 334
2,6-Dinitrotoluene	ND < 327	ND < 320	ND < 334
4-Nitroaniline	ND < 327	ND < 320	ND < 334
Acenaphthene	ND < 327	ND < 320	ND < 334
2,4-Dinitrophenol	ND < 327	ND < 320	ND < 334
2,4-Dinitrotoluene	ND < 327	ND < 320	ND < 334
4-Nitrophenol	ND < 327	ND < 320	ND < 334
Dibenzofuran	ND < 327	ND < 320	ND < 334
2,3,4,6-Tetrachlorophenol	ND < 327	ND < 320	ND < 334
Fluorene	700	ND < 320	ND < 334
4-Chlorophenyl-phenylether	ND < 327	ND < 320	ND < 334
Diethylphthalate	ND < 327	ND < 320	ND < 334
3-Nitroaniline	ND < 327	ND < 320	ND < 334
4,6-Dinitro-2-methylphenol	ND < 327	ND < 320	ND < 334
n-Nitrosodiphenylamine	ND < 327	ND < 320	ND < 334
Azobenzene	ND < 327	ND < 320	ND < 334
4-Bromophenyl-phenylether	ND < 327	ND < 320	ND < 334
Hexachlorobenzene	ND < 327	ND < 320	ND < 334
Pentachlorophenol	ND < 327	ND < 320	ND < 334
Benzidine	ND < 327	ND < 320	ND < 334
Phenanthrene	3700	ND < 320	940
Anthracene	850	ND < 320	460
Carbazole	1200	ND < 320	380
Di-n-butylphthalate	ND < 327	ND < 320	ND < 334
Fluoranthene	3800	700	4300
Pyrene	3200	640	4000
Butylbenzylphthalate	ND < 327	ND < 320	ND < 334
3,3-Dichlorobenzidine	ND < 327	ND < 320	ND < 334
Benzo[a]anthracene	1600	440	2900
Chrysene	1500	440	2800
bis(2-Ethylhexyl)phthalate	ND < 327	ND < 320	ND < 334
Di-n-octylphthalate	ND < 327	ND < 320	ND < 334
Benzo[b]fluoranthene	1600	590	3900
Benzo[k]fluoranthene	710	ND < 320	1700
Benzo[a]pyrene	1600	570	3400
Indeno[1,2,3-cd]pyrene	830	340	1500
Dibenz[a,h]anthracene	ND < 327	ND < 320	ND < 334
Benzo[g,h,i]perylene	940	410	1500
2-Fluorophenol (Surr) 30-130	98.5	80.6	75.7
Phenol-d5 (Surr) 30-130	101	85.3	79.9
Nitrobenzene-d5(Surr) 30-130	83.1	69.4	67.2
2-Fluorobiphenyl (Surr) 30-130	88.8	76.4	71.2
2,4,6-Tribromophenol (Surr) 30-130	100	77.4	77.9
Terphenyl-d14 (Surr) 30-130	80.6	60.8	56.3

Conn. Extractable TPH Dup [CT DEP] Units: mg/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 2
CET ID	AE71356
Date Analyzed	6/7/2011
Dilution	1.0
ETPH	200*
Octacosane (surr)	117

*C_{16} – C_{36} May be PNA related

Conn. Extractable TPH [CT DEP] Units: mg/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
CET ID	AE71355	AE71356	AE71357	AE71358
Date Analyzed	6/7/2011	6/7/2011	6/7/2011	6/8/2011
Dilution	1.0	1.0	1.0	1.0
ETPH	ND < 59	160*	370*	230*
Octacosane (surr) 50-150	123	116	129	128

*C_{16} – C_{36} May be PNA related

Conn. Extractable TPH [CT DEP] Units: mg/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
CET ID	AE71359	AE71360	AE71361
Date Analyzed	6/8/2011	6/8/2011	6/8/2011
Dilution	1.0	1.0	1.0
ETPH	230*	210*	360*
Octacosane (surr) 50-150	126	133	140

*C_{16} – C_{36} May be PNA related

Volatile Organics [EPA 8260C] Units: ug/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
CET ID	AE71355	AE71356	AE71357	AE71358
Date Analyzed	6/2/2011	6/2/2011	6/2/2011	6/2/2011
Dilution	1.7	1.9	1.8	1.7
Dichlorodifluoromethane	ND < 15	ND < 16	ND < 15	ND < 14
Chloromethane	ND < 10	ND < 11	ND < 10	ND < 9.0
Vinyl Chloride	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
Bromomethane	ND < 10	ND < 11	ND < 10	ND < 9.0
Chloroethane	ND < 10	ND < 11	ND < 10	ND < 9.0
Acrolein	ND < 50	ND < 54	ND < 48	ND < 45
Trichlorofluoromethane	ND < 40	ND < 43	ND < 39	ND < 36
1,1-Dichloroethene	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
Methylene Chloride	ND < 50	ND < 54	ND < 48	ND < 45
Acrylonitrile	ND < 8.0	ND < 9.0	ND < 8.0	ND < 8.0
trans-1,2-Dichloroethene	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
1,1-Dichloroethane	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
cis-1,2-Dichloroethene	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
Chloroform	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
1,1,1-Trichloroethane	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
Carbon Tetrachloride	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
Benzene	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
1,2-Dichloroethane	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0

Volatile Organics [EPA 8260C] Units: ug/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 1	ET1 WSA Myrtle 2	ET1 WSA Myrtle 3	ET1 WSA Myrtle 4
Trichloroethene	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
1,2-Dichloropropane	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
Bromodichloromethane	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
2-Chloroethyl Vinyl Ether	ND < 25	ND < 27	ND < 24	ND < 23
cis-1,3-Dichloropropene	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
Toluene	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
trans-1,3-Dichloropropene	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
1,1,2-Trichloroethane	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
Tetrachloroethene	ND < 5.0	ND < 6.0	ND < 5.0	40
Dibromochloromethane	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
Chlorobenzene	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
Ethylbenzene	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
Bromoform	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
1,1,2,2-Tetrachloroethane	ND < 5.0	ND < 6.0	ND < 5.0	ND < 5.0
1,2 Dichloroethane-d4 (SURR) 70-130	105	100	108	107
toluene-d8 (SURR) 70-130	96.1	95	96.1	96
4-bromofluorobenzene (SURR) 70-130	112	104	101	106

Volatile Organics [EPA 8260C] Units: ug/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
CET ID	AE71359	AE71360	AE71361
Date Analyzed	6/2/2011	6/2/2011	6/2/2011
Dilution	1.7	1.9	1.9
Dichlorodifluoromethane	ND < 15	ND < 16	ND < 16
Chloromethane	ND < 10	ND < 11	ND < 11
Vinyl Chloride	ND < 5.0	ND < 6.0	ND < 6.0
Bromomethane	ND < 10	ND < 11	ND < 11
Chloroethane	ND < 10	ND < 11	ND < 11
Acrolein	ND < 48	ND < 52	ND < 53
Trichlorofluoromethane	ND < 38	ND < 42	ND < 42
1,1-Dichloroethene	ND < 5.0	ND < 6.0	ND < 6.0
Methylene Chloride	ND < 48	ND < 52	ND < 53
Acrylonitrile	ND < 8.0	ND < 9.0	ND < 9.0
trans-1,2-Dichloroethene	ND < 5.0	ND < 6.0	ND < 6.0
1,1-Dichloroethane	ND < 5.0	ND < 6.0	ND < 6.0
cis-1,2-Dichloroethene	ND < 5.0	ND < 6.0	ND < 6.0
Chloroform	ND < 5.0	ND < 6.0	ND < 6.0
1,1,1-Trichloroethane	ND < 5.0	ND < 6.0	ND < 6.0
Carbon Tetrachloride	ND < 5.0	ND < 6.0	ND < 6.0
Benzene	ND < 5.0	ND < 6.0	ND < 6.0
1,2-Dichloroethane	ND < 5.0	ND < 6.0	ND < 6.0
Trichloroethene	ND < 5.0	ND < 6.0	ND < 6.0
1,2-Dichloropropane	ND < 5.0	ND < 6.0	ND < 6.0
Bromodichloromethane	ND < 5.0	ND < 6.0	ND < 6.0
2-Chloroethyl Vinyl Ether	ND < 24	ND < 26	ND < 27
cis-1,3-Dichloropropene	ND < 5.0	ND < 6.0	ND < 6.0
Toluene	ND < 5.0	ND < 6.0	ND < 6.0
trans-1,3-Dichloropropene	ND < 5.0	ND < 6.0	ND < 6.0
1,1,2-Trichloroethane	ND < 5.0	ND < 6.0	ND < 6.0

Volatile Organics [EPA 8260C] Units: ug/kg (Dry Wt)

Client ID	ET1 WSA Myrtle 5	ET1 WSA Myrtle 6	ET1 WSA Myrtle 7
Tetrachloroethene	ND < 5.0	ND < 6.0	ND < 6.0
Dibromochloromethane	ND < 5.0	ND < 6.0	ND < 6.0
Chlorobenzene	ND < 5.0	ND < 6.0	ND < 6.0
Ethylbenzene	ND < 5.0	ND < 6.0	ND < 6.0
Bromoform	ND < 5.0	ND < 6.0	ND < 6.0
1,1,2,2-Tetrachloroethane	ND < 5.0	ND < 6.0	ND < 6.0
1,2 Dichloroethane-d4 (SURR) 70-130	112	107	111
toluene-d8 (SURR) 70-130	97.7	96.7	97.8
4-bromofluorobenzene (SURR) 70-130	103	103	108

Questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta
Laboratory Director

Report Comments:

1. ND is None Detected at the specified detection limit.
2. All analyses were performed in house unless a Reference Laboratory is listed.
3. Samples will be disposed of 30 days after the report date.
4. Sample Result Flags:
   E - The result is estimated, above the calibration range.
   H - The surrogate recovery is above the control limits.
   L - The surrogate recovery is below the control limits.
   B - The compound was detected in the laboratory blank.
   P - The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
   D - The RPD between the sample and the sample duplicate is high. Sample homogeneity may be a problem.
5. All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

CET #: 11060055

Volatile Soils Only:

Date and Time in Freezer
Client:
CET: 6-2-11 @ 13:40

CET
COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking W., C=Cassette, Solid, Wipe, Other (Specify)

Turnaround Time ** (check one): Same Day *, Next Day *, 2-3 Days *, Std (5-7 Days)

Organics: 8260 CT List, 8260 Aromatics, 8260 Halogens, SPLP 8260, TCLP 8260, CT ETPH, 8270 CT List, 8270 PNAs, PCBs, Pesticides, Herbicides

Metals (check all that apply): 13 Priority Poll, 8 RCRA, TOTAL, TCLP, SPLP, Field Filtered, Lab To Filter

Additional Analysis: Priority Pollutant VOCs 624/8260, Priority Pollutant SVOCs 625/8270, Priority Pollutant Metals 6010, Leachable Priority Pollutant Metals

Sample ID	Date/Time	Matrix	Same Day *	Next Day *	2-3 Days *	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	SPLP 8260	TCLP 8260	CT ETPH	8270 CT List	8270 PNAs	PCBs	Pesticides	Herbicides	13 Priority Poll	8 RCRA	TOTAL	TCLP	SPLP	Field Filtered	Lab To Filter	Priority Pollutant VOCs 624/8260	Priority Pollutant SVOCs 625/8270	Priority Pollutant Metals 6010	Leachable Priority Pollutant Metals					TOTAL # OF CONT.	NOTE #
ETI WSA Myrtle 1	6/2/11 / 1040	S				X						X			X	X	X								X	X	X	X					4	
ETI WSA Myrtle 2	/ 1050																																	
ETI WSA Myrtle 3	/ 1100																																	
ETI WSA Myrtle 4	/ 1110																																	
ETI WSA Myrtle 5	/ 1120																																	
ETI WSA Myrtle 6	/ 1130																																	
ETI WSA Myrtle 7	/ 1140																																	

PRESERVATIVE (Cl-HCl, N-HNO_3, S-H_2SO_4, Na-NaOH, C=Cool, O-Other)

CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)

Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
[illegible]	6/2/11 / 1500	[illegible] 6/2/11 13:00
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:

NOTES:

Client / Reporting Information

Company Name: TRC
Address: 21 Griffin Road North
City: Windsor State: CT Zip: 06095
Report To: Sarah Trombetta E-mail: strombetta@trcsolutions.com
Phone #: 860-298-9692 Fax #: 860-298-6399

Project Information

Project Contact: Sarah Trombetta PO #:
Project: SUT / Town of Stamford Project #: 155171
Location: Stamford, CT Collector(s): K. Sheffield

QA/QC: ☐ Std ☐ Site Specific (MS/MSD) * ☒ RCP Pkg * ☒ DQAW *
Data Report: ☒ Email ☒ PDF ☐ Excel ☐ Other
RSR Reporting Limits (check one): ☒ GA ☐ GB ☐ SWP ☐ Other (specify)

Lab Use: Evidence of Cooling: (Y) or N
Temp Upon Receipt: 12 °C

SHEET 1 OF 1

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day.

REV. 7/1/10

WebmailPrint Mail

11060055

From: Trombetta, Sarah (Windsor,CT-US) <STrombetta@trcsolutions.com>
To: Jacqui Bakos <jbakos@cetlabs.com>
Cc:
Subject: RE: tests needed??
Date: 6/2/2011
Time: 1:55 PM

Attachments: None

Hi Jacqui – here is the list of metals to run on the samples dropped off today:

Antimony

Arsenic

Beryllium

Cadmium

Chromium

Copper

Lead

Mercury

Nickel

Selenium

Silver

Thallium

Zinc

And the leachable metals should be SPLP.

Sarah

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc. ***Client:*** TRC Environmental Consultants

Project Location: SUT, Town of Stamford ***Project Number:*** 155171

Laboratory Sample ID(s): AE71355-AE71361 ***Sampling Date(s):***

List RCP Methods Used (e.g., 8260, 8270, et cetera): ***CET#:*** 11060055

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	☐Yes ☒No
1A	Were the method specified preservation and holding time requirements met?	☒Yes ☐No
1B	**VPH and EPH Methods only:** Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐Yes ☐ No ☒ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒Yes ☐No
3	Were samples received at an appropriate temperature (<6°C)?	☒Yes ☐ No ☐N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	☐Yes ☒No
5	a) Were reporting limits specified or referenced on the chain-of custody? b) Were these reporting limits met?	☒Yes ☐No ☒Yes ☐No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐Yes ☒No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☒Yes ☐No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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

Authorized Signature: _____ **Position:** Laboratory Director

Printed Name: David Ditta **Date:** 7/13/11

Name of Laboratory: Complete Environmental Testing, Inc.

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

COMPLETE ENVIRONMENTAL TESTING, INC.

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QA Report

Project: SUT, Town of Stamford
CET#: 11060055

Blank/LCS Report

QA Type: Volatile Organics Date Analyzed: 6/2/2011 Batch ID: 73347

Analyte	Blank	LCS%Rec	LCS CL
Dichlorodifluoromethane	ND<10	94	70-130
Chloromethane	ND<2.7	91	70-130
Vinyl Chloride	ND<1.6	60 L	70-130
Bromomethane	ND<5.0	101	70-130
Chloroethane	ND<5.0	79	70-130
Acetone	ND<50	112	70-130
Acrylonitrile	ND<20	97	70-130
Trichlorofluoromethane	ND<25	96	70-130
Trichlorotrifluoroethane	ND<25	92	70-130
1,1-Dichloroethene	ND<1.0	98	70-130
Methylene Chloride	ND<5.0	88	70-130
Carbon Disulfide	ND<5.0	96	70-130
Methyl-t-Butyl Ether (MTBE)	ND<5.0	105	70-130
trans-1,2-Dichloroethene	ND<1.0	97	70-130
1,1-Dichloroethane	ND<1.0	99	70-130
2-Butanone (MEK)	ND<25	105	70-130
2,2-Dichloropropane	ND<1.0	102	70-130
cis-1,2-Dichloroethene	ND<1.0	100	70-130
Chloroform	ND<1.0	92	70-130
Tetrahydrofuran	ND<5.0	94	70-130
1,1,1-Trichloroethane	ND<1.0	102	70-130
Carbon Tetrachloride	ND<1.0	100	70-130
1,1-Dichloropropene	ND<1.0	99	70-130
Benzene	ND<1.0	103	70-130
1,2-Dichloroethane	ND<1.0	99	70-130
Methyl Isobutyl Ketone	ND<25	96	70-130
Trichloroethene	ND<1.0	112	70-130
1,2-Dichloropropane	ND<1.0	101	70-130
Dibromomethane	ND<1.0	108	70-130
Bromodichloromethane	ND<0.5	100	70-130
2-Hexanone	ND<25	95	70-130
cis-1,3-Dichloropropene	ND<0.5	102	70-130

Project: SUT, Town of Stamford
Cet#: 11060055

QA Type: Volatile Organics Date Analyzed: 6/2/2011 Batch ID: 73347

Analyte	Blank	LCS%Rec	LCS CL
Toluene	ND<1.0	102	70-130
trans-1,3-Dichloropropene	ND<0.5	102	70-130
1,1,2-Trichloroethane	ND<1.0	105	70-130
Tetrachloroethene	ND<1.0	104	70-130
1,3-Dichloropropane	ND<1.0	101	70-130
Dibromochloromethane	ND<0.5	91	70-130
1,2-Dibromoethane	ND<0.5	90	70-130
Chlorobenzene	ND<1.0	89	70-130
1,1,1,2-Tetrachloroethane	ND<1.0	89	70-130
Ethylbenzene	ND<1.0	84	70-130
m+p Xylenes	ND<1.0	90	70-130
o-Xylene	ND<1.0	86	70-130
Styrene	ND<1.0	89	70-130
Bromoform	ND<1.0	92	70-130
Isopropylbenzene	ND<1.0	87	70-130
1,1,2,2-Tetrachloroethane	ND<0.5	82	70-130
Bromobenzene	ND<1.0	97	70-130
1,2,3-Trichloropropane	ND<1.0	97	70-130
n-Propylbenzene	ND<1.0	100	70-130
2-Chlorotoluene	ND<1.0	87	70-130
4-Chlorotoluene	ND<1.0	116	70-130
1,3,5-Trimethylbenzene	ND<1.0	100	70-130
tert-Butylbenzene	ND<1.0	102	70-130
1,2,4-Trimethylbenzene	ND<1.0	100	70-130
sec-Butylbenzene	ND<1.0	100	70-130
1,3-Dichlorobenzene	ND<1.0	102	70-130
4-Isopropyltoluene	ND<1.0	100	70-130
1,4-Dichlorobenzene	ND<1.0	102	70-130
1,2-Dichlorobenzene	ND<1.0	103	70-130
n-Butylbenzene	ND<1.0	96	70-130
1,2-Dibromo-3-Chloropropane	ND<1.0	106	70-130
1,2,4-Trichlorobenzene	ND<1.0	99	70-130
Hexachlorobutadiene	ND<0.45	88	70-130
Naphthalene	ND<1.0	104	70-130
1,2,3-Trichlorobenzene	ND<1.0	100	70-130

All associated samples: AE71355 AE71356 AE71357 AE71358 AE71359 AE71360 AE71361

QA Type: Total Mercury Date Analyzed: 6/6/2011 Batch ID: 73378

Analyte	Blank	LCS%Rec	LCS CL
Total Mercury	ND<0.002	98	80-120

All associated samples: AE71355 AE71356 AE71357 AE71358 AE71359 AE71360 AE71361

QA Type: Semi-Volatile Organics Date Analyzed: 6/6/2011 Batch ID: 73379

Analyte	Blank	LCS%Rec	LCS CL
Pyridine	ND<300	32	30-130
n-Nitroso-dimethylamine	ND<300	37 L	40-140
bis(2-Chloroethyl)ether	ND<300	45	40-140
Phenol	ND<300	50	30-130
Aniline	ND<300	65	30-130
2-Chlorophenol	ND<300	52	30-130
1,3-Dichlorobenzene	ND<300	46	40-140
1,4-Dichlorobenzene	ND<300	46	40-140

Project: SUT, Town of Stamford
Cet#: 11060055

QA Type: Semi-Volatile Organics Date Analyzed: 6/6/2011 Batch ID: 73379

Analyte	Blank	LCS%Rec	LCS CL
Benzyl Alcohol	ND<300	50	30-130
1,2-Dichlorobenzene	ND<300	44	40-140
bis(2-chloroisopropyl)ether	ND<300	40	40-140
Hexachloroethane	ND<300	44	40-140
N-Nitroso-di-n-propylamine	ND<300	42	40-140
2-Methyl Phenol	ND<300	43	30-130
3+4 Methyl Phenol	ND<300	46	30-130
Nitrobenzene	ND<300	45	40-140
Isophorone	ND<300	45	40-140
2-Nitrophenol	ND<300	52	30-130
2,4-Dimethylphenol	ND<300	42	30-130
bis(2-Chloroethoxy)methane	ND<300	46	40-140
2,4-Dichlorophenol	ND<300	52	30-130
1,2,4-Trichlorobenzene	ND<300	49	40-140
Naphthalene	ND<300	48	40-140
4-Chloroaniline	ND<300	43	30-130
Hexachlorobutadiene	ND<300	48	40-140
4-Chloro-3-methylphenol	ND<300	50	30-130
2-Methyl Naphthalene	ND<300	46	40-140
Hexachlorocyclopentadiene	ND<300	53	40-140
2,4,6-Trichlorophenol	ND<300	48	30-130
2,4,5-Trichlorophenol	ND<300	43	30-130
2-Chloronaphthalene	ND<300	43	30-130
2-Nitroaniline	ND<300	47	30-130
Acenaphthylene	ND<300	42	40-140
Dimethylphthalate	ND<300	48	40-140
2,6-Dinitrotoluene	ND<300	51	40-140
4-Nitroaniline	ND<300	41	30-130
Acenaphthene	ND<300	45	40-140
2,4-Dinitrophenol	ND<300	36	30-130
2,4-Dinitrotoluene	ND<300	70	40-140
4-Nitrophenol	ND<300	49	30-130
Dibenzofuran	ND<300	50	40-140
Fluorene	ND<300	46	40-140
4-Chlorophenyl-phenylether	ND<300	48	40-140
Diethylphthalate	ND<300	48	40-140
3-Nitroaniline	ND<300	51	30-130
4,6-Dinitro-2-methylphenol	ND<300	54	30-130
n-Nitrosodiphenylamine	ND<300	52	40-140
Azobenzene	ND<300	47	40-140
4-Bromophenyl-phenylether	ND<300	52	40-140
Hexachlorobenzene	ND<300	50	40-140
Pentachlorophenol	ND<300	50	30-130
Phenanthrene	ND<300	51	40-140
Anthracene	ND<300	50	40-140
Di-n-butylphthalate	ND<300	52	40-140
Fluoranthene	ND<300	47	40-140
Pyrene	ND<300	46	40-140
Butylbenzylphthalate	ND<300	48	40-140
Benzo[a]anthracene	ND<300	48	40-140
Chrysene	ND<300	55	40-140
bis(2-Ethylhexyl)phthalate	ND<300	54	40-140
Di-n-octylphthalate	ND<300	53	40-140

Project: SUT, Town of Stamford
Cet#: 11060055

QA Type: Semi-Volatile Organics Date Analyzed: 6/6/2011 Batch ID: 73379

Analyte	Blank	LCS%Rec	LCS CL
Benzo[b]fluoranthene	ND<300	50	40-140
Benzo[k]fluoranthene	ND<300	61	40-140
Benzo[a]pyrene	ND<300	52	40-140
Indeno[1,2,3-cd]pyrene	ND<300	57	40-140
Dibenz[a,h]anthracene	ND<300	59	40-140
Benzo[g,h,i]perylene	ND<300	60	40-140

All associated samples: AE71355 AE71356 AE71357 AE71358

QA Type: SPLP Metals Date Analyzed: 6/6/2011 Batch ID: 73380

Analyte	Blank	LCS%Rec	LCS CL
Lead	ND<0.013	100	80-120
Selenium	ND<0.01	98	80-120
Cadmium	ND<0.005	96	80-120
Chromium	ND<0.05	92	80-120
Arsenic	ND<0.009	92	80-120
Silver	ND<0.02	91	80-120
Copper	ND<0.04	91	80-120
Nickel	ND<0.05	96	80-120
Zinc	0.04	114	80-120
Beryllium	ND<0.004	100	80-120
Antimony	ND<0.006	98	80-120
Thallium	ND<0.005	94	80-120
Mercury	ND<0.002	102	80-120

All associated samples: AE71355 AE71356 AE71357 AE71358 AE71359 AE71360 AE71361

QA Type: Total Metals Date Analyzed: 6/6/2011 Batch ID: 73385

Analyte	Blank	LCS%Rec	LCS CL
Lead	ND<2.0	98	80-120
Selenium	ND<1.0	109	80-120
Cadmium	ND<0.5	105	80-120
Chromium	ND<2.0	108	80-120
Arsenic	ND<1.0	104	80-120
Silver	ND<2.0	109	80-120
Copper	ND<2.0	110	80-120
Nickel	ND<2.0	100	80-120
Zinc	ND<2.0	114	80-120
Beryllium	ND<1.0	110	80-120
Antimony	ND<2.0	105	80-120
Thallium	ND<2.0	102	80-120

All associated samples: AE71355 AE71356 AE71357 AE71358 AE71359 AE71360 AE71361

QA Type: Conn. Extractable TPH Date Analyzed: 6/8/2011 Batch ID: 73389

Analyte	Blank	LCS%Rec	LCS CL
ETPH	ND<50	115	60-120

All associated samples: AE71355 AE71356 AE71357 AE71358 AE71359 AE71360 AE71361

QA Type: EPA 8082 PCBs Date Analyzed: 6/8/2011 Batch ID: 73430

Analyte	Blank	LCS%Rec	LCS CL
PCB-1016	ND<0.30	99	40-140
PCB-1260	ND<0.30	92	40-140

All associated samples: AE71355 AE71356 AE71357 AE71358 AE71359 AE71360 AE71361

Project: SUT, Town of Stamford
Cet#: 11060055

QA Type: Semi-Volatile Organics Date Analyzed: 6/8/2011 Batch ID: 73441

Analyte	Blank	LCS%Rec	LCS CL
Pyridine	ND<300	50	30-130
n-Nitroso-dimethylamine	ND<300	69	40-140
bis(2-Chloroethyl)ether	ND<300	55	40-140
Phenol	ND<300	75	30-130
Aniline	ND<300	56	30-130
2-Chlorophenol	ND<300	71	30-130
1,3-Dichlorobenzene	ND<300	64	40-140
1,4-Dichlorobenzene	ND<300	64	40-140
Benzyl Alcohol	ND<300	52	30-130
1,2-Dichlorobenzene	ND<300	66	40-140
bis(2-chloroisopropyl)ether	ND<300	68	40-140
Hexachloroethane	ND<300	65	40-140
N-Nitroso-di-n-propylamine	ND<300	71	40-140
2-Methyl Phenol	ND<300	74	30-130
3+4 Methyl Phenol	ND<300	70	30-130
Nitrobenzene	ND<300	55	40-140
Isophorone	ND<300	54	40-140
2-Nitrophenol	ND<300	58	30-130
2,4-Dimethylphenol	ND<300	55	30-130
bis(2-Chloroethoxy)methane	ND<300	53	40-140
2,4-Dichlorophenol	ND<300	54	30-130
1,2,4-Trichlorobenzene	ND<300	66	40-140
Naphthalene	ND<300	55	40-140
4-Chloroaniline	ND<300	71	30-130
Hexachlorobutadiene	ND<300	65	40-140
4-Chloro-3-methylphenol	ND<300	70	30-130
2-Methyl Naphthalene	ND<300	71	40-140
Hexachlorocyclopentadiene	ND<300	46	40-140
2,4,6-Trichlorophenol	ND<300	58	30-130
2,4,5-Trichlorophenol	ND<300	61	30-130
2-Chloronaphthalene	ND<300	68	30-130
2-Nitroaniline	ND<300	62	30-130
Acenaphthylene	ND<300	56	40-140
Dimethylphthalate	ND<300	58	40-140
2,6-Dinitrotoluene	ND<300	57	40-140
4-Nitroaniline	ND<300	95	30-130
Acenaphthene	ND<300	58	40-140
2,4-Dinitrophenol	ND<300	71	30-130
2,4-Dinitrotoluene	ND<300	59	40-140
4-Nitrophenol	ND<300	70	30-130
Dibenzofuran	ND<300	69	40-140
Fluorene	ND<300	65	40-140
4-Chlorophenyl-phenylether	ND<300	66	40-140
Diethylphthalate	ND<300	56	40-140
3-Nitroaniline	ND<300	77	30-130
4,6-Dinitro-2-methylphenol	ND<300	86	30-130
n-Nitrosodiphenylamine	ND<300	73	40-140
Azobenzene	ND<300	77	40-140
4-Bromophenyl-phenylether	ND<300	78	40-140
Hexachlorobenzene	ND<300	80	40-140
Pentachlorophenol	ND<300	74	30-130
Phenanthrene	ND<300	70	40-140
Anthracene	ND<300	71	40-140

Project: SUT, Town of Stamford
Cet#: 11060055

QA Type: Semi-Volatile Organics Date Analyzed: 6/8/2011 Batch ID: 73441

Analyte	Blank	LCS%Rec	LCS CL
Di-n-butylphthalate	ND<300	71	40-140
Fluoranthene	ND<300	72	40-140
Pyrene	ND<300	71	40-140
Butylbenzylphthalate	ND<300	65	40-140
Benzo[a]anthracene	ND<300	72	40-140
Chrysene	ND<300	70	40-140
bis(2-Ethylhexyl)phthalate	ND<300	68	40-140
Di-n-octylphthalate	ND<300	67	40-140
Benzo[b]fluoranthene	ND<300	64	40-140
Benzo[k]fluoranthene	ND<300	74	40-140
Benzo[a]pyrene	ND<300	76	40-140
Indeno[1,2,3-cd]pyrene	ND<300	66	40-140
Dibenz[a,h]anthracene	ND<300	69	40-140
Benzo[g,h,i]perylene	ND<300	67	40-140

All associated samples: AE71359 AE71360 AE71361

QA Type: EPA 8081B Chlorinated Pesticides Date Analyzed: 6/11/2011 Batch ID: 73498

Analyte	Blank	LCS%Rec	LCS CL
Alpha-BHC	ND<50	119	40-140
Gamma-BHC	ND<12	121	40-140
Heptachlor	ND<9.0	121	40-140
Aldrin	ND<25	118	40-140
Beta-BHC	ND<25	122	40-140
Delta-BHC	ND<50	132	40-140
Heptachlor Epoxide	ND<15	118	40-140
Endosulfan I	ND<50	126	40-140
4,4-DDE	ND<20	124	40-140
Dieldrin	ND<5.0	121	40-140
Endrin	ND<50	137	40-140
4,4-DDD	ND<30	117	40-140
Endosulfan II	ND<50	126	40-140
4,4-DDT	ND<20	126	40-140
Endrin Aldehyde	ND<50	96	40-140
4,4-Methoxychlor	ND<50	135	40-140
Endosulfan Sulfate	ND<50	124	40-140
Endrin Ketone	ND<50	115	40-140

All associated samples: AE71355 AE71356 AE71357 AE71358 AE71359 AE71360 AE71361

QA Type: EPA 8151A Chlorinated Herbicides Date Analyzed: 6/13/2011 Batch ID: 73507

Analyte	Blank	LCS%Rec	LCS CL
3,5-Dichlorobenzoic acid	ND<25	69	40-140
4-Nitrophenol	ND<125	75	40-140
Dicamba	ND<25	62	40-140
Dichloroprop	ND<125	65	40-140
2,4-D	ND<125	65	40-140
PCP	ND<25	60	40-140
Silvex	ND<25	65	40-140
2,4,5-T	ND<25	64	40-140
Dinoseb	ND<25	38 L	40-140
2,4-DB	ND<250	66	40-140
Picloram	ND<25	61	40-140

All associated samples: AE71355 AE71356 AE71357 AE71358 AE71359 AE71360 AE71361

Project: SUT, Town of Stamford
Cet#: 11060055

Matrix Spike Report

QA Type: SPLP Metals Date Analyzed: 6/6/2011 Sample ID: AE71355 Client ID: ET1 WSA Myrtle 1

Analyte	SampRes	Amt	MS%R	MSD%R	MS CL	RPD	RPD CL
Lead	0.027	0.2	92	91	75-125	1.09	20
Selenium	ND<0.01	0.4	96	94	75-125	2.11	20
Cadmium	ND<0.005	0.2	95	94	75-125	1.59	20
Chromium	ND<0.05	0.2	94	94	75-125	1.06	20
Arsenic	ND<0.009	0.2	94	92	75-125	1.08	20
Silver	ND<0.02	0.1	83	81	75-125	2.93	20
Copper	ND<0.04	0.2	93	92	75-125	0.54	20
Nickel	ND<0.05	0.2	94	94	75-125	1.06	20
Zinc	0.058	0.2	84	82	75-125	1.80	20
Beryllium	ND<0.004	0.2	98	98	75-125	0.00	20
Antimony	ND<0.006	0.1	97	94	75-125	3.15	20
Thallium	ND<0.005	0.2	93	92	75-125	0.54	20
Mercury	ND<0.002	0.005	104	98	75-125	5.53	20

QA Type: Conn. Extractable TPH Date Analyzed: 6/8/2011 Sample ID: AE71356 Client ID: ET1 WSA Myrtle 2

Analyte	SampRes	Amt	MS%R	MSD%R	MS CL	RPD	RPD CL
ETPH	160	1650	116	113	50-150	2.62	30

QA Type: EPA 8151A Chlorinated Herbicides Date Analyzed: 6/13/2011 Sample ID: AE71361 Client ID: ET1 WSA Myrtle 7

Analyte	SampRes	Amt	MS%R	MS CL
3,5-Dichlorobenzoic acid	ND<56	88.9	84	50-150
4-Nitrophenol	ND<278	444	78	50-150
Dicamba	ND<56	88.9	60	50-150
Dichloroprop	ND<278	444	65	50-150
2,4-D	ND<278	444	60	50-150
PCP	ND<28	22.2	60	50-150
Silvex	ND<56	88.9	61	50-150
2,4,5-T	ND<56	88.9	58	50-150
Dinoseb	ND<56	88.9	60	50-150
2,4-DB	ND<556	889	68	50-150
Picloram	ND<56	88.9	50	50-150

ND is not detected

Initial Cal. Report

Compound	Batch#	%RSD	Limits
Initial Calibration VOC			
Dichlorodifluoromethane	73347	31 H	20
Vinyl Chloride	73347	29 H	20
Acrylonitrile	73347	25 H	20
Methylene Chloride	73347	26 H	20
2-Butanone (MEK)	73347	28 H	20
Chloroform	73347	25 H	20
Tetrahydrofuran	73347	28 H	20
All associated samples: AE71355 AE71356 AE71357 AE71358 AE71359 AE71360 AE71361			
Initial Calibration SVOC			
Aniline	73379	35 H	20
4-Chloroaniline	73379	23 H	20
Benzo[b]fluoranthene	73379	23 H	20
All associated samples: AE71355 AE71356 AE71357 AE71358			
Initial Calibration SVOC			
Hexachlorocyclopentadiene	73441	22 H	20
3-Nitroaniline	73441	26 H	20
All associated samples: AE71359 AE71360 AE71361			

Cont. Cal. Report

Compound	Batch#	Result	Limits	Analysis Date
Volatile Organics Cont Cal				
Vinyl Chloride	73347	26 L	35-65	6/2/2011
All associated samples: AE71355 AE71356 AE71357 AE71358 AE71359 AE71360 AE71361				
Semi-Vol Cont Cal				
2,4-Dinitrotoluene	73379	74 H	35-65	6/6/2011
All associated samples: AE71355 AE71356 AE71357 AE71358				
PCB Confirmation Cont Cal				
PCB-1260	73430	786 L	850-1150	6/8/2011
All associated samples: AE71355 AE71356 AE71357 AE71358 AE71359 AE71360 AE71361				
Semi-Vol Cont Cal				
2,4-Dinitrophenol	73441	72 H	35-65	6/8/2011
All associated samples: AE71359 AE71360 AE71361				
Pesticides Confirmation Cont Cal				
4,4-DDT	73498	59 H	42.5-57.5	6/11/2011
All associated samples: AE71355 AE71356 AE71357 AE71358 AE71359 AE71360 AE71361				
Pesticides Primary Cont Cal				
4,4-DDE	73498	40 L	42.5-57.5	6/11/2011
All associated samples: AE71355 AE71356 AE71357 AE71358 AE71359 AE71360 AE71361				

Project: SUT, Town of Stamford
Cert#: 11060055

QC Batch Report

Volatile Organics Batch 73347

CET ID	Client Sample ID	Matrix	Collection Date
AE71355	ET1 WSA Myrtle 1	Soil	6/2/2011
AE71356	ET1 WSA Myrtle 2	Soil	6/2/2011
AE71357	ET1 WSA Myrtle 3	Soil	6/2/2011
AE71358	ET1 WSA Myrtle 4	Soil	6/2/2011
AE71359	ET1 WSA Myrtle 5	Soil	6/2/2011
AE71360	ET1 WSA Myrtle 6	Soil	6/2/2011
AE71361	ET1 WSA Myrtle 7	Soil	6/2/2011

Total Mercury Batch 73378

CET ID	Client Sample ID	Matrix	Collection Date
AE71355	ET1 WSA Myrtle 1	Soil	6/2/2011
AE71356	ET1 WSA Myrtle 2	Soil	6/2/2011
AE71357	ET1 WSA Myrtle 3	Soil	6/2/2011
AE71358	ET1 WSA Myrtle 4	Soil	6/2/2011
AE71359	ET1 WSA Myrtle 5	Soil	6/2/2011
AE71360	ET1 WSA Myrtle 6	Soil	6/2/2011
AE71361	ET1 WSA Myrtle 7	Soil	6/2/2011

Semi-Volatile Organics Batch 73379

CET ID	Client Sample ID	Matrix	Collection Date
AE71355	ET1 WSA Myrtle 1	Soil	6/2/2011
AE71356	ET1 WSA Myrtle 2	Soil	6/2/2011
AE71357	ET1 WSA Myrtle 3	Soil	6/2/2011
AE71358	ET1 WSA Myrtle 4	Soil	6/2/2011

SPLP Metals Batch 73380

CET ID	Client Sample ID	Matrix	Collection Date
AE71355	ET1 WSA Myrtle 1	Soil	6/2/2011
AE71356	ET1 WSA Myrtle 2	Soil	6/2/2011
AE71357	ET1 WSA Myrtle 3	Soil	6/2/2011
AE71358	ET1 WSA Myrtle 4	Soil	6/2/2011
AE71359	ET1 WSA Myrtle 5	Soil	6/2/2011
AE71360	ET1 WSA Myrtle 6	Soil	6/2/2011
AE71361	ET1 WSA Myrtle 7	Soil	6/2/2011

Project: SUT, Town of Stamford
Cet#: 11060055

Total Metals Batch 73385

CET ID	Client Sample ID	Matrix	Collection Date
AE71355	ET1 WSA Myrtle 1	Soil	6/2/2011
AE71356	ET1 WSA Myrtle 2	Soil	6/2/2011
AE71357	ET1 WSA Myrtle 3	Soil	6/2/2011
AE71358	ET1 WSA Myrtle 4	Soil	6/2/2011
AE71359	ET1 WSA Myrtle 5	Soil	6/2/2011
AE71360	ET1 WSA Myrtle 6	Soil	6/2/2011
AE71361	ET1 WSA Myrtle 7	Soil	6/2/2011

Conn. Extractable TPH Batch 73389

CET ID	Client Sample ID	Matrix	Collection Date
AE71355	ET1 WSA Myrtle 1	Soil	6/2/2011
AE71356	ET1 WSA Myrtle 2	Soil	6/2/2011
AE71357	ET1 WSA Myrtle 3	Soil	6/2/2011
AE71358	ET1 WSA Myrtle 4	Soil	6/2/2011
AE71359	ET1 WSA Myrtle 5	Soil	6/2/2011
AE71360	ET1 WSA Myrtle 6	Soil	6/2/2011
AE71361	ET1 WSA Myrtle 7	Soil	6/2/2011

EPA 8082 PCBs Batch 73430

CET ID	Client Sample ID	Matrix	Collection Date
AE71355	ET1 WSA Myrtle 1	Soil	6/2/2011
AE71356	ET1 WSA Myrtle 2	Soil	6/2/2011
AE71357	ET1 WSA Myrtle 3	Soil	6/2/2011
AE71358	ET1 WSA Myrtle 4	Soil	6/2/2011
AE71359	ET1 WSA Myrtle 5	Soil	6/2/2011
AE71360	ET1 WSA Myrtle 6	Soil	6/2/2011
AE71361	ET1 WSA Myrtle 7	Soil	6/2/2011

Semi-Volatile Organics Batch 73441

CET ID	Client Sample ID	Matrix	Collection Date
AE71359	ET1 WSA Myrtle 5	Soil	6/2/2011
AE71360	ET1 WSA Myrtle 6	Soil	6/2/2011
AE71361	ET1 WSA Myrtle 7	Soil	6/2/2011

EPA 8081B Chlorinated Pesticides Batch 73498

CET ID	Client Sample ID	Matrix	Collection Date
AE71355	ET1 WSA Myrtle 1	Soil	6/2/2011
AE71356	ET1 WSA Myrtle 2	Soil	6/2/2011
AE71357	ET1 WSA Myrtle 3	Soil	6/2/2011
AE71358	ET1 WSA Myrtle 4	Soil	6/2/2011
AE71359	ET1 WSA Myrtle 5	Soil	6/2/2011
AE71360	ET1 WSA Myrtle 6	Soil	6/2/2011
AE71361	ET1 WSA Myrtle 7	Soil	6/2/2011

Project: SUT, Town of Stamford
Cet#: 11060055

EPA 8151A Chlorinated Herbicides Batch 73507

CET ID	Client Sample ID	Matrix	Collection Date
AE71355	ET1 WSA Myrtle 1	Soil	6/2/2011
AE71356	ET1 WSA Myrtle 2	Soil	6/2/2011
AE71357	ET1 WSA Myrtle 3	Soil	6/2/2011
AE71358	ET1 WSA Myrtle 4	Soil	6/2/2011
AE71359	ET1 WSA Myrtle 5	Soil	6/2/2011
AE71360	ET1 WSA Myrtle 6	Soil	6/2/2011
AE71361	ET1 WSA Myrtle 7	Soil	6/2/2011

Narrative

1. The number of compounds allowed out for Herbicides LCS was exceeded for batch 73507.

4. Vinyl Chloride LCS recovery low (60%) for batch 73347.
   n-Nitroso-dimethylamine LCS recovery low (37%) for batch 73379.
   SPLP Zinc LCS blank detected as 0.04 for batch 73380.
   Dinoseb LCS recovery low (38%) for batch 73507.
   Dichlorodifluoromethane Initial Cal % RSD high(31%) for batch 73347.
   Vinyl Chloride Initial Cal % RSD high(29%) for batch 73347.
   Acrylonitrile Initial Cal % RSD high(25%) for batch 73347.
   Methylene Chloride Initial Cal % RSD high(26%) for batch 73347.
   2-Butanone (MEK) Initial Cal % RSD high(28%) for batch 73347.
   Chloroform Initial Cal % RSD high(25%) for batch 73347.
   Tetrahydrofuran Initial Cal % RSD high(28%) for batch 73347.
   Aniline Initial Cal % RSD high(35%) for batch 73379.
   4-Chloroaniline Initial Cal % RSD high(23%) for batch 73379.
   Benzo[b]fluoranthene Initial Cal % RSD high(23%) for batch 73379.
   Hexachlorocyclopentadiene Initial Cal % RSD high(22%) for batch 73441.
   3-Nitroaniline Initial Cal % RSD high(26%) for batch 73441.
   Vinyl Chloride CC low for batch 73347.
   2,4-Dinitrotoluene CC high for batch 73379.
   PCB-1260 CC low for confirmation column for batch 73430.
   2,4-Dinitrophenol CC high for batch 73441.
   4,4-DDT CC high for confirmation column for batch 73498.
   4,4-DDE CC low for primary column for batch 73498.

6. The client requested a subset of the RCP metals list.

Project: SUT, Town of Stamford
Cet#: 11060055

COMPLETE ENVIRONMENTAL TESTING, INC.

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Std. (IS)	An analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Rec.(Surr Rec)	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period. Samples are of the same matrix.
ND	Not detected.
Dilution	Multiplier applied to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Samp. Res.	Amount of analyte found in a sample.
Spk. Amt. (Amt)	Amount of analyte added to a sample.
Spk. Res.	Amount of analyte found including amount that was spiked.
Spk. Dup. Res.	Amount of analyte found in duplicate spikes including amount that was spiked.
MS%R	% recovery of spiked amount in sample.
MSD%R	% recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between MS and MSD
Blank	Method blank that has been taken through all steps of the analysis.
LCS % Rec.	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Control Limits	A range within which specified measurement results must fall to be compliant.
LCS CL	Control limits for Laboratory Control Sample.
MS CL	Control limits for matrix spike and matrix spike dup.
RPD CL	Control limits for RPD.
Cont. Cal. (CC)	Continuing Calibration

Flags:

H-	Recovery is above control limits
L-	Recovery is below control limits
B-	Compound detected in the Blank
P-	RPD of dual column results exceeds 40%
#-	Sample result too high for accurate spike recovery

Connecticut Laboratory Certification PH 0116
Massachusetts Laboratory Certification M-CT903
Rhode Island Certification 199

New York Certification 11982
Florida Laboratory Certification E871064

GeoTesting EXPRESS

Client:	TRC Companies Inc.				
Project:	Stamford Urban Transitway				
Location:	Stamford, CT			Project No:	GTX-10884
Boring ID:	ETI WSA	Sample Type:	bag	Tested By:	jbr
Sample ID:	Myrtle 1	Test Date:	06/15/11	Checked By:	jdt
Depth :	---	Test Id:	209821		
Test Comment:	---				
Sample Description:	Moist, dark brown clayey sand with gravel				
Sample Comment:	---				

USCS Classification - ASTM D 2487-06

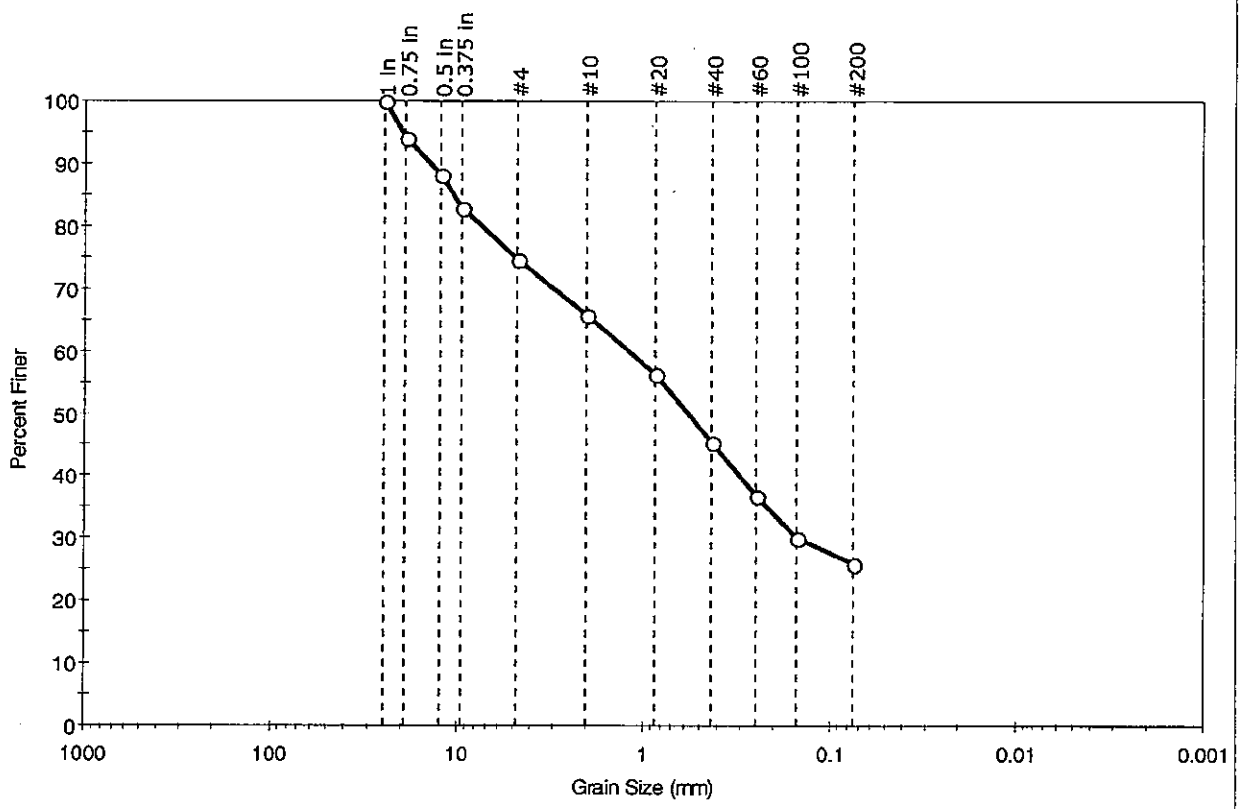
Boring ID	Sample ID	Depth	Group Name	Group Symbol	Gravel, %	Sand, %	Fines, %
ETI WSA	Myrtle 1	---	Clayey sand with gravel	SC	25.3	48.9	25.8

Remarks: Grain Size analysis performed by ASTM D422, results enclosed
Atterbeg Limits performed by ASTM 4318, results enclosed

GeoTesting EXPRESS

Client:	TRC Companies Inc.		
Project:	Stamford Urban Transitway		
Location:	Stamford, CT	Project No:	GTX-10884
Boring ID: ETI WSA	Sample Type: bag	Tested By:	jbr
Sample ID:Myrtle 1	Test Date: 06/09/11	Checked By:	jdt
Depth : ---	Test Id: 209807		
Test Comment:	---		
Sample Description:	Moist, dark brown clayey sand with gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	25.3	48.9	25.8

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	94		
0.5 in	12.50	88		
0.375 in	9.50	83		
#4	4.75	75		
#10	2.00	66		
#20	0.85	56		
#40	0.42	45		
#60	0.25	37		
#100	0.15	30		
#200	0.075	26		

Coefficients

D_{85} = 10.5209 mm D_{30} = 0.1483 mm
D_{60} = 1.1925 mm D_{15} = N/A
D_{50} = 0.5708 mm D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM Clayey sand with gravel (SC)

AASHTO Clayey Gravel and Sand (A-2-6 (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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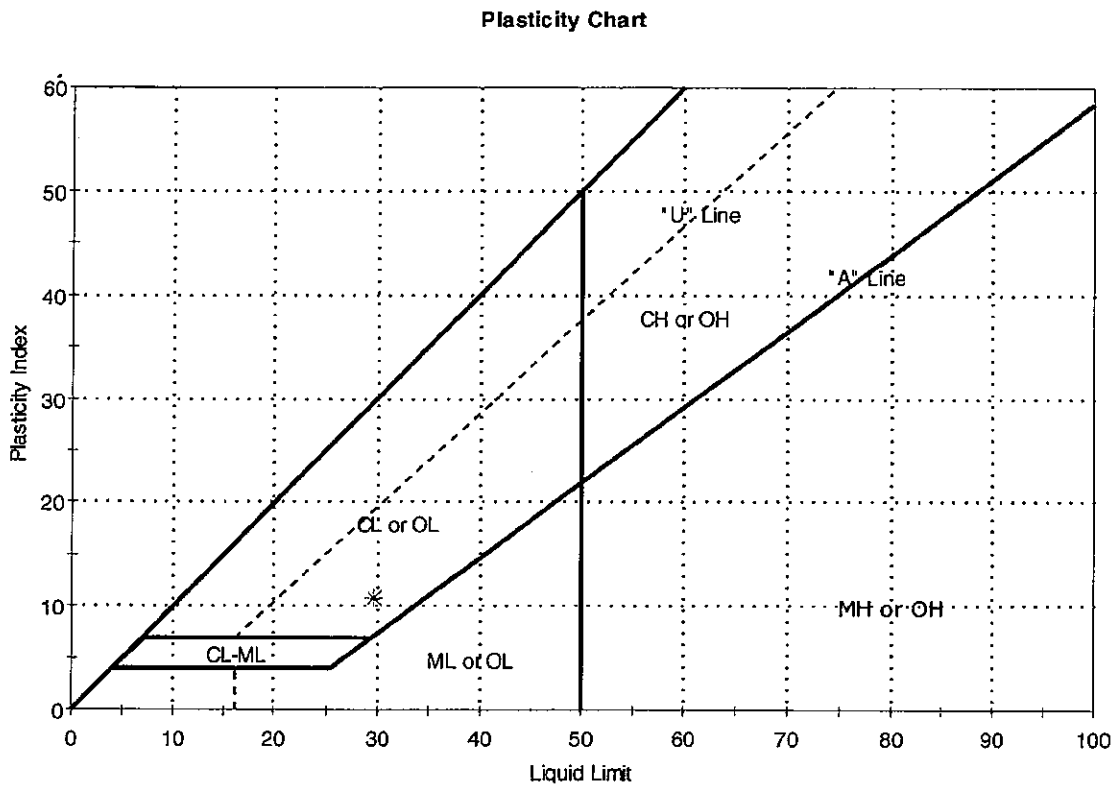
GeoTesting EXPRESS

Client:	TRC Companies Inc.		
Project:	Stamford Urban Transitway		
Location:	Stamford, CT	Project No:	GTX-10884
Boring ID: ETI WSA	Sample Type: bag	Tested By:	cam
Sample ID: Myrtle 1	Test Date: 06/09/11	Checked By:	n/a
Depth : ---	Test Id: 209814		
Test Comment:	---		
Sample Description:	Moist, dark brown clayey sand with gravel		
Sample Comment:	---		

Atterberg Limits - ASTM D 4318-05



Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
*	Myrtle 1	ETI WSA	---	14.	30	19	11	0	Clayey sand with gravel (SC)

Sample Prepared using the WET method
54% Retained on #40 Sieve
Dry Strength: VERY HIGH
Dilentancy: RAPID
Toughness: LOW

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GeoTesting EXPRESS

Client:	TRC Companies Inc.		
Project:	Stamford Urban Transitway		
Location:	Stamford, CT	Project No:	GTX-10884
Boring ID: ETI WSA	Sample Type: bag	Tested By:	jbr
Sample ID:Myrtle 2	Test Date: 06/15/11	Checked By:	jdt
Depth : ---	Test Id: 209822		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand with gravel		
Sample Comment:	---		

USCS Classification - ASTM D 2487-06

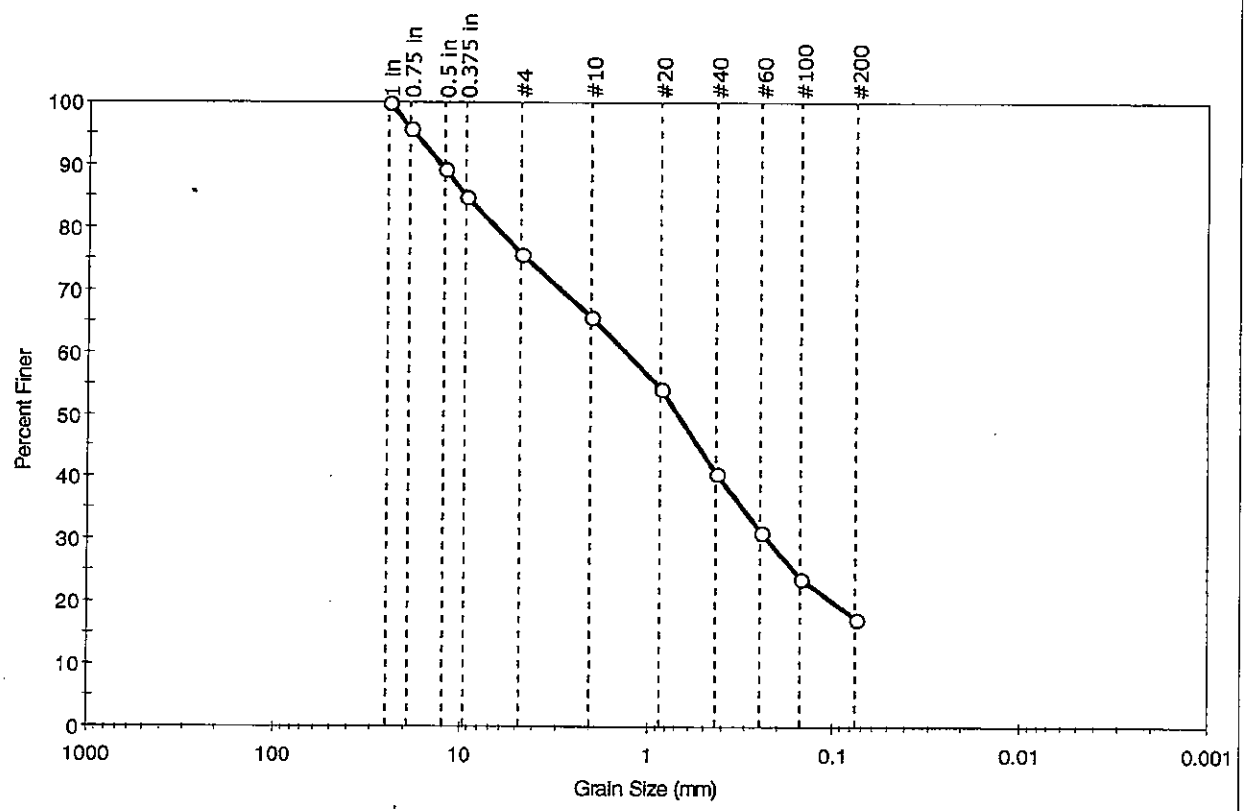
Boring ID	Sample ID	Depth	Group Name	Group Symbol	Gravel, %	Sand, %	Fines, %
ETI WSA	Myrtle 2	---	Silty sand with gravel	SM	24.2	58.4	17.4

Remarks: Grain Size analysis performed by ASTM D422, results enclosed
Atterbeg Limits performed by ASTM 4318, results enclosed

GeoTesting EXPRESS

Client:	TRC Companies Inc.		
Project:	Stamford Urban Transitway		
Location:	Stamford, CT	Project No:	GTX-10884
Boring ID: ETI WSA	Sample Type: bag	Tested By:	jbr
Sample ID:Myrtle 2	Test Date: 06/09/11	Checked By:	jdt
Depth : ---	Test Id: 209808		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand with gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	24.2	58.4	17.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	96		
0.5 in	12.50	90		
0.375 in	9.50	85		
#4	4.75	76		
#10	2.00	66		
#20	0.85	54		
#40	0.42	41		
#60	0.25	31		
#100	0.15	24		
#200	0.075	17		

Coefficients

D_{85} = 9.5755 mm	D_{30} = 0.2297 mm
D_{60} = 1.2975 mm	D_{15} = N/A
D_{50} = 0.6836 mm	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM Silty sand with gravel (SM)

AASHTO Stone Fragments, Gravel and Sand (A-1-b (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	TRC Companies Inc.				
Project:	Stamford Urban Transitway				
Location:	Stamford, CT			Project No:	GTX-10884
Boring ID:	ETI WSA	Sample Type:	bag	Tested By:	cam
Sample ID:	Myrtle 2	Test Date:	06/09/11	Checked By:	n/a
Depth :	---	Test Id:	209815		
Test Comment:	---				
Sample Description:	Moist, dark brown silty sand with gravel				
Sample Comment:	---				

Atterberg Limits - ASTM D 4318-05

Sample Determined to be non-plastic

Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
*	Myrtle 2	ETI WSA	---	8	n/a	n/a	n/a	n/a	Silty sand with gravel (SM)

59% Retained on #40 Sieve

Dry Strength: HIGH

Dilentancy: RAPID

Toughness: n/a

The sample was determined to be Non-Plastic

GeoTesting EXPRESS

Client:	TRC Companies Inc.				
Project:	Stamford Urban Transitway				
Location:	Stamford, CT			Project No:	GTX-10884
Boring ID:	ETI WSA	Sample Type:	bag	Tested By:	jbr
Sample ID:	Myrtle 3	Test Date:	06/15/11	Checked By:	jdt
Depth :	---	Test Id:	209823		
Test Comment:	---				
Sample Description:	Moist, olive brown sand with silt and gravel				
Sample Comment:	---				

USCS Classification - ASTM D 2487-06

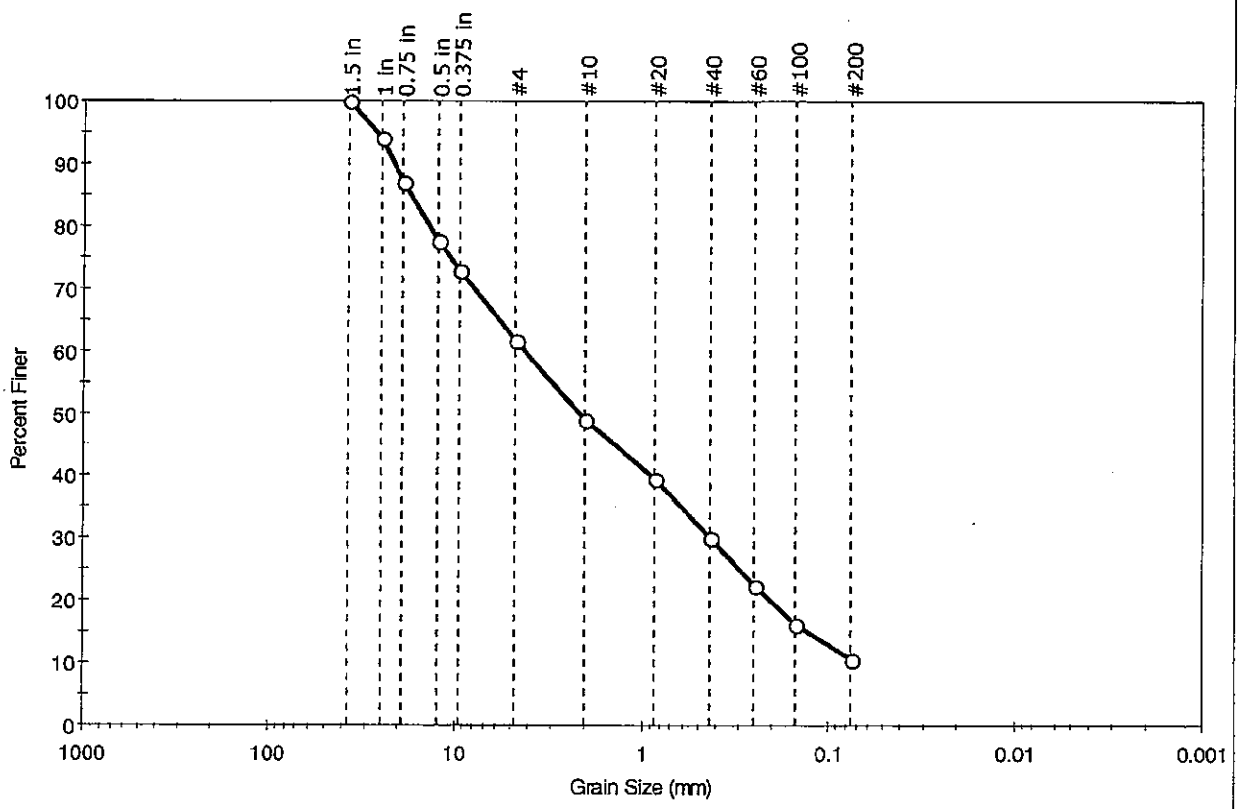
Boring ID	Sample ID	Depth	Group Name	Group Symbol	Gravel, %	Sand, %	Fines, %
ETI WSA	Myrtle 3	---	Poorly graded sand with silt and gravel	SP-SM	38.2	51.3	10.5

Remarks: Grain Size analysis performed by ASTM D422, results enclosed
Atterbeg Limits performed by ASTM 4318, results enclosed

GeoTesting EXPRESS

Client:	TRC Companies Inc.		
Project:	Stamford Urban Transitway		
Location:	Stamford, CT	Project No:	GTX-10884
Boring ID: ETI WSA	Sample Type: bag	Tested By:	jbr
Sample ID:Myrtle 3	Test Date: 06/09/11	Checked By:	jdt
Depth : ---	Test Id: 209809		
Test Comment:	---		
Sample Description:	Moist, olive brown sand with silt and gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
–	38.2	51.3	10.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1.5 in	37.50	100		
1 in	25.00	94		
0.75 in	19.00	87		
0.5 in	12.50	78		
0.375 in	9.50	73		
#4	4.75	62		
#10	2.00	49		
#20	0.85	40		
#40	0.42	30		
#60	0.25	22		
#100	0.15	16		
#200	0.075	10		

Coefficients

D_{85} = 17.3272 mm D_{30} = 0.4259 mm

D_{60} = 4.2183 mm D_{15} = 0.1307 mm

D_{50} = 2.1474 mm D_{10} = 0.0707 mm

C_u = 59.665 C_c = 0.608

Classification

ASTM: Poorly graded sand with silt and gravel (SP-SM)

AASHTO: Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	TRC Companies Inc.				
Project:	Stamford Urban Transitway				
Location:	Stamford, CT			Project No:	GTX-10884
Boring ID:	ETI WSA	Sample Type:	bag	Tested By:	cam
Sample ID:	Myrtle 3	Test Date:	06/09/11	Checked By:	jdt
Depth :	---	Test Id:	209816		
Test Comment:	---				
Sample Description:	Moist, olive brown sand with silt and gravel				
Sample Comment:	---				

Atterberg Limits - ASTM D 4318-05

Sample Determined to be non-plastic

Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
*	Myrtle 3	ETI WSA	---	5	n/a	n/a	n/a	n/a	Poorly graded sand with silt and gravel (SP-SM)

70% Retained on #40 Sieve

Dry Strength: HIGH

Dilentancy: RAPID

Toughness: n/a

The sample was determined to be Non-Plastic

GeoTesting EXPRESS

Client:	TRC Companies Inc.				
Project:	Stamford Urban Transitway				
Location:	Stamford, CT			Project No:	GTX-10884
Boring ID:	ETI WSA	Sample Type:	bag	Tested By:	jbr
Sample ID:	Myrtle 4	Test Date:	06/15/11	Checked By:	jdt
Depth :	---	Test Id:	209824		
Test Comment:	---				
Sample Description:	Moist, olive brown sand with silt and gravel				
Sample Comment:	---				

USCS Classification - ASTM D 2487-06

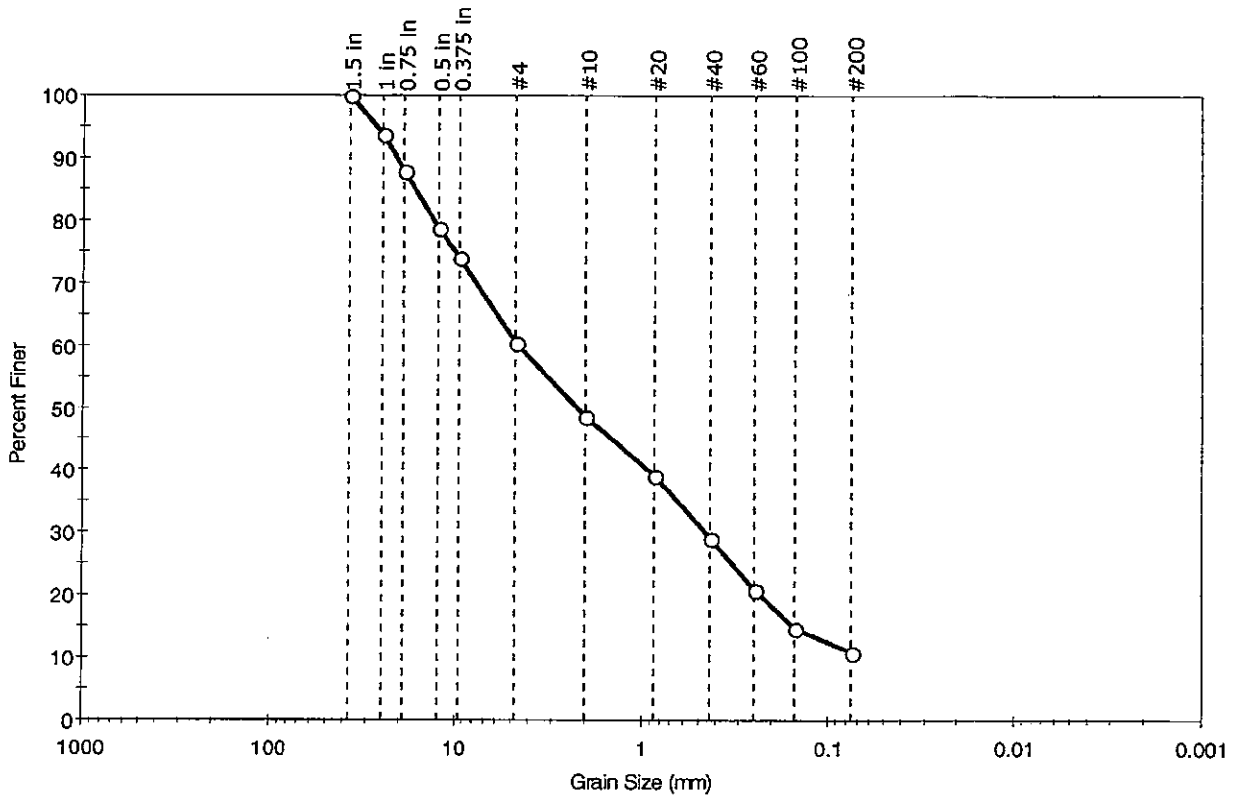
Boring ID	Sample ID	Depth	Group Name	Group Symbol	Gravel, %	Sand, %	Fines, %
ETI WSA	Myrtle 4	---	Poorly graded sand with silt and gravel	SP-SM	39.5	49.5	11.0

Remarks: Grain Size analysis performed by ASTM D422, results enclosed
Atterbeg Limits performed by ASTM 4318, results enclosed

GeoTesting EXPRESS

Client:	TRC Companies Inc.		
Project:	Stamford Urban Transitway		
Location:	Stamford, CT	Project No:	GTX-10884
Boring ID: ETI WSA	Sample Type: bag	Tested By:	jbr
Sample ID:Myrtle 4	Test Date: 06/09/11	Checked By:	jdt
Depth : ---	Test Id: 209810		
Test Comment:	---		
Sample Description:	Moist, olive brown sand with silt and gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	39.5	49.5	11.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1.5 in	37.50	100		
1 in	25.00	94		
0.75 in	19.00	88		
0.5 in	12.50	79		
0.375 in	9.50	74		
#4	4.75	60		
#10	2.00	49		
#20	0.85	39		
#40	0.42	29		
#60	0.25	21		
#100	0.15	15		
#200	0.075	11		

Coefficients

D_{85} =16.6104 mm D_{30} =0.4490 mm
D_{60} =4.5795 mm D_{15} =0.1533 mm
D_{50} =2.1856 mm D_{10} =0.0627 mm
C_u =73.038 C_c =0.702

Classification

ASTM Poorly graded sand with silt and gravel (SP-SM)

AASHTO Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

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GeoTesting EXPRESS

Client:	TRC Companies Inc.		
Project:	Stamford Urban Transitway		
Location:	Stamford, CT	Project No:	GTX-10884
Boring ID: ETI WSA	Sample Type: bag	Tested By:	cam
Sample ID:Myrtle 4	Test Date: 06/09/11	Checked By:	jdt
Depth : ---	Test Id: 209817		
Test Comment: ---			
Sample Description:	Moist, olive brown sand with silt and gravel		
Sample Comment: ---			

Atterberg Limits - ASTM D 4318-05

Sample Determined to be non-plastic

Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
*	Myrtle 4	ETI WSA	---	5	n/a	n/a	n/a	n/a	Poorly graded sand with silt and gravel (SP-SM)

71% Retained on #40 Sieve

Dry Strength: HIGH

Dilentancy: RAPID

Toughness: n/a

The sample was determined to be Non-Plastic

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GeoTesting EXPRESS

Client:	TRC Companies Inc.				
Project:	Stamford Urban Transitway				
Location:	Stamford, CT			Project No:	GTX-10884
Boring ID:	ETI WSA	Sample Type:	bag	Tested By:	jbr
Sample ID:	Myrtle 5	Test Date:	06/15/11	Checked By:	jdt
Depth :	---	Test Id:	209825		
Test Comment:	---				
Sample Description:	Moist, dark olive brown sand with silt and gravel				
Sample Comment:	---				

USCS Classification - ASTM D 2487-06

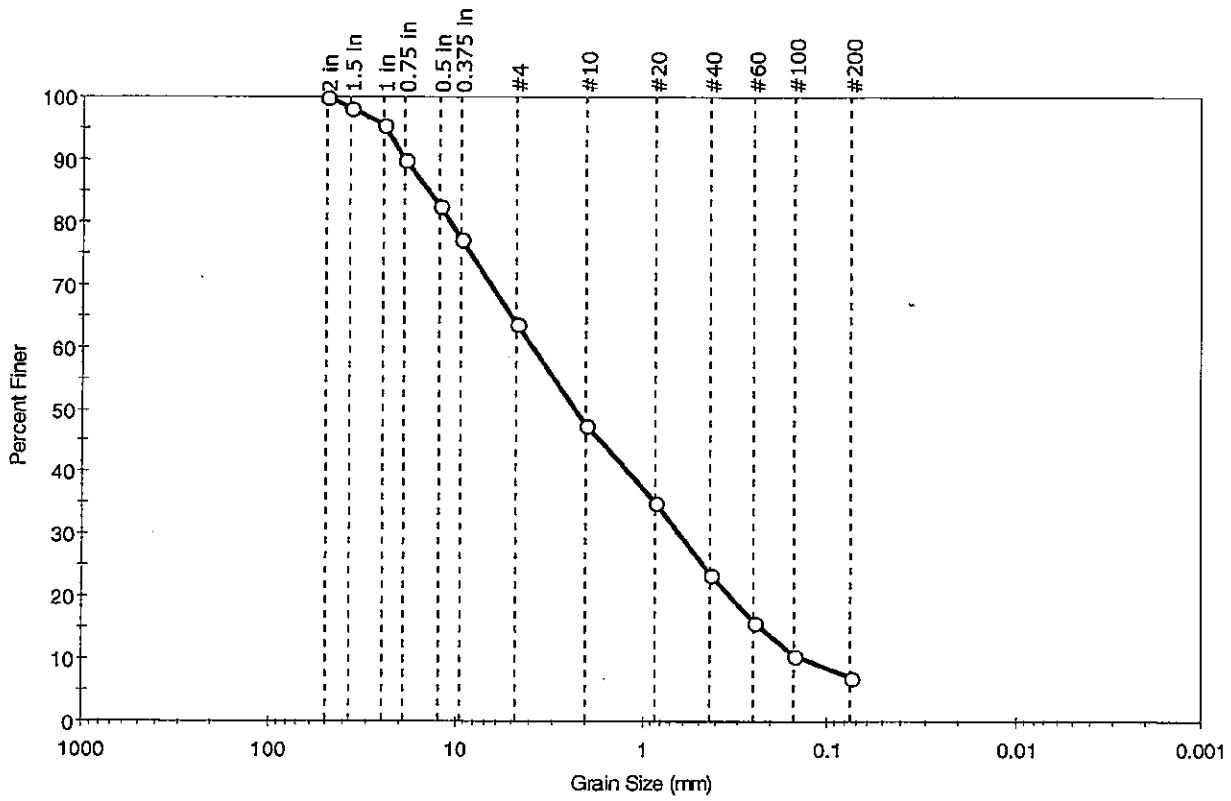
Boring ID	Sample ID	Depth	Group Name	Group Symbol	Gravel, %	Sand, %	Fines, %
ETI WSA	Myrtle 5	---	Poorly graded sand with silt and gravel	SP-SM	36.2	56.7	7.1

Remarks: Grain Size analysis performed by ASTM D422, results enclosed
Atterbeg Limits performed by ASTM 4318, results enclosed

GeoTesting EXPRESS

Client:	TRC Companies Inc.		
Project:	Stamford Urban Transitway		
Location:	Stamford, CT	Project No:	GTX-10884
Boring ID: ETI WSA	Sample Type: bag	Tested By:	jbr
Sample ID: Myrtle 5	Test Date: 06/08/11	Checked By:	jdt
Depth : ---	Test Id: 209811		
Test Comment: ---			
Sample Description:	Moist, dark olive brown sand with silt and gravel		
Sample Comment: ---			

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
–	36.2	56.7	7.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
2 in	50.00	100		
1.5 in	37.50	98		
1 in	25.00	96		
0.75 in	19.00	90		
0.5 in	12.50	83		
0.375 in	9.50	77		
#4	4.75	64		
#10	2.00	47		
#20	0.85	35		
#40	0.42	24		
#60	0.25	16		
#100	0.15	11		
#200	0.075	7		

Coefficients

D_{85} = 14.2232 mm D_{30} = 0.6230 mm

D_{60} = 3.8788 mm D_{15} = 0.2274 mm

D_{50} = 2.2894 mm D_{10} = 0.1345 mm

C_u = 28.839 C_c = 0.744

Classification

ASTM: Poorly graded sand with silt and gravel (SP-SM)

AASHTO: Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

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GeoTesting EXPRESS

Client:	TRC Companies Inc.				
Project:	Stamford Urban Transitway				
Location:	Stamford, CT			Project No:	GTX-10884
Boring ID:	ETI WSA	Sample Type:	bag	Tested By:	cam
Sample ID:	Myrtle 5	Test Date:	06/09/11	Checked By:	jdt
Depth :	---	Test Id:	209818		
Test Comment:	---				
Sample Description:	Moist, dark olive brown sand with silt and gravel				
Sample Comment:	---				

Atterberg Limits - ASTM D 4318-05

Sample Determined to be non-plastic

Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
*	Myrtle 5	ETI WSA	---	7	n/a	n/a	n/a	n/a	Poorly graded sand with silt and gravel (SP-SM)

76% Retained on #40 Sieve

Dry Strength: LOW

Dilentancy: RAPID

Toughness: n/a

The sample was determined to be Non-Plastic

GeoTesting EXPRESS

Client:	TRC Companies Inc.		
Project:	Stamford Urban Transitway		
Location:	Stamford, CT	Project No:	GTX-10884
Boring ID: ETI WSA	Sample Type: bag	Tested By:	jbr
Sample ID:Myrtle 6	Test Date: 06/15/11	Checked By:	jdt
Depth : ---	Test Id: 209826		
Test Comment:	---		
Sample Description:	Moist, dark brown sand with silt and gravel		
Sample Comment:	---		

USCS Classification - ASTM D 2487-06

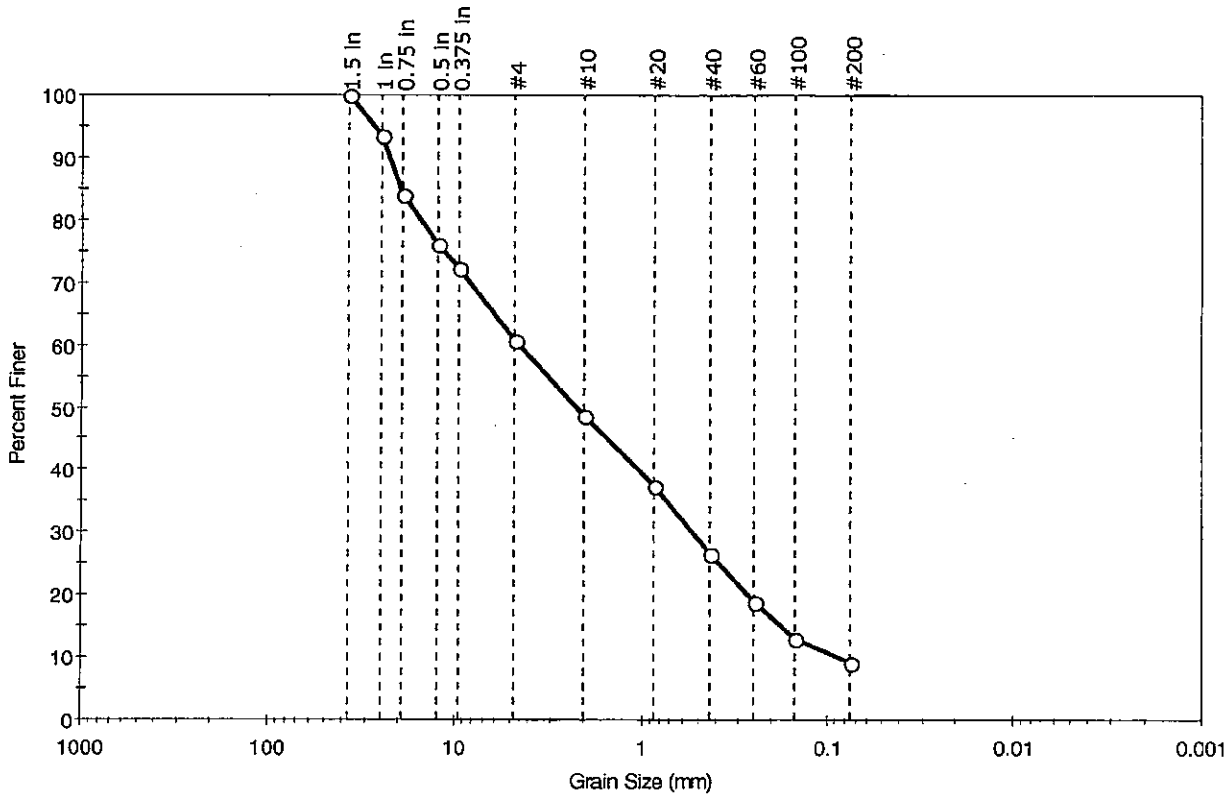
Boring ID	Sample ID	Depth	Group Name	Group Symbol	Gravel, %	Sand, %	Fines, %
ETI WSA	Myrtle 6	---	Poorly graded sand with silt and gravel	SP-SM	39.1	51.6	9.3

Remarks: Grain Size analysis performed by ASTM D422, results enclosed
Atterbeg Limits performed by ASTM 4318, results enclosed

GeoTesting EXPRESS

Client:	TRC Companies Inc.		
Project:	Stamford Urban Transitway		
Location:	Stamford, CT	Project No:	GTX-10884
Boring ID: ETI WSA	Sample Type: bag	Tested By:	jbr
Sample ID:Myrtle 6	Test Date: 06/08/11	Checked By:	jdt
Depth : ---	Test Id: 209812		
Test Comment:	---		
Sample Description:	Moist, dark brown sand with silt and gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	39.1	51.6	9.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1.5 in	37.50	100		
1 in	25.00	93		
0.75 in	19.00	84		
0.5 in	12.50	76		
0.375 in	9.50	72		
#4	4.75	61		
#10	2.00	49		
#20	0.85	38		
#40	0.42	27		
#60	0.25	19		
#100	0.15	13		
#200	0.075	9		

Coefficients

D_{85} = 19.4746 mm D_{30} = 0.5273 mm

D_{60} = 4.4768 mm D_{15} = 0.1784 mm

D_{50} = 2.1843 mm D_{10} = 0.0858 mm

C_u = 52.177 C_c = 0.724

Classification

ASTM: Poorly graded sand with silt and gravel (SP-SM)

AASHTO: Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	TRC Companies Inc.				
Project:	Stamford Urban Transitway				
Location:	Stamford, CT			Project No:	GTX-10884
Boring ID:	ETI WSA	Sample Type:	bag	Tested By:	jbr
Sample ID:	Myrtle 7	Test Date:	06/15/11	Checked By:	jdt
Depth :	---	Test Id:	209827		
Test Comment:	---				
Sample Description:	Moist, dark brown silty sand with gravel				
Sample Comment:	---				

USCS Classification - ASTM D 2487-06

Boring ID	Sample ID	Depth	Group Name	Group Symbol	Gravel, %	Sand, %	Fines, %
ETI WSA	Myrtle 7	---	Silty sand with gravel	SM	38.5	48.3	13.2

Remarks: Grain Size analysis performed by ASTM D422, results enclosed
Atterbeg Limits performed by ASTM 4318, results enclosed

GeoTesting EXPRESS

Client:	TRC Companies Inc.				
Project:	Stamford Urban Transitway				
Location:	Stamford, CT			Project No:	GTX-10884
Boring ID:	ETI WSA	Sample Type:	bag	Tested By:	cam
Sample ID:	Myrtle 6	Test Date:	06/09/11	Checked By:	jdt
Depth :	---	Test Id:	209819		
Test Comment:	---				
Sample Description:	Moist, dark brown sand with silt and gravel				
Sample Comment:	---				

Atterberg Limits - ASTM D 4318-05

Sample Determined to be non-plastic

Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
*	Myrtle 6	ETI WSA	---	5	n/a	n/a	n/a	n/a	Poorly graded sand with silt and gravel (SP-SM)

73% Retained on #40 Sieve

Dry Strength: LOW

Dilentancy: RAPID

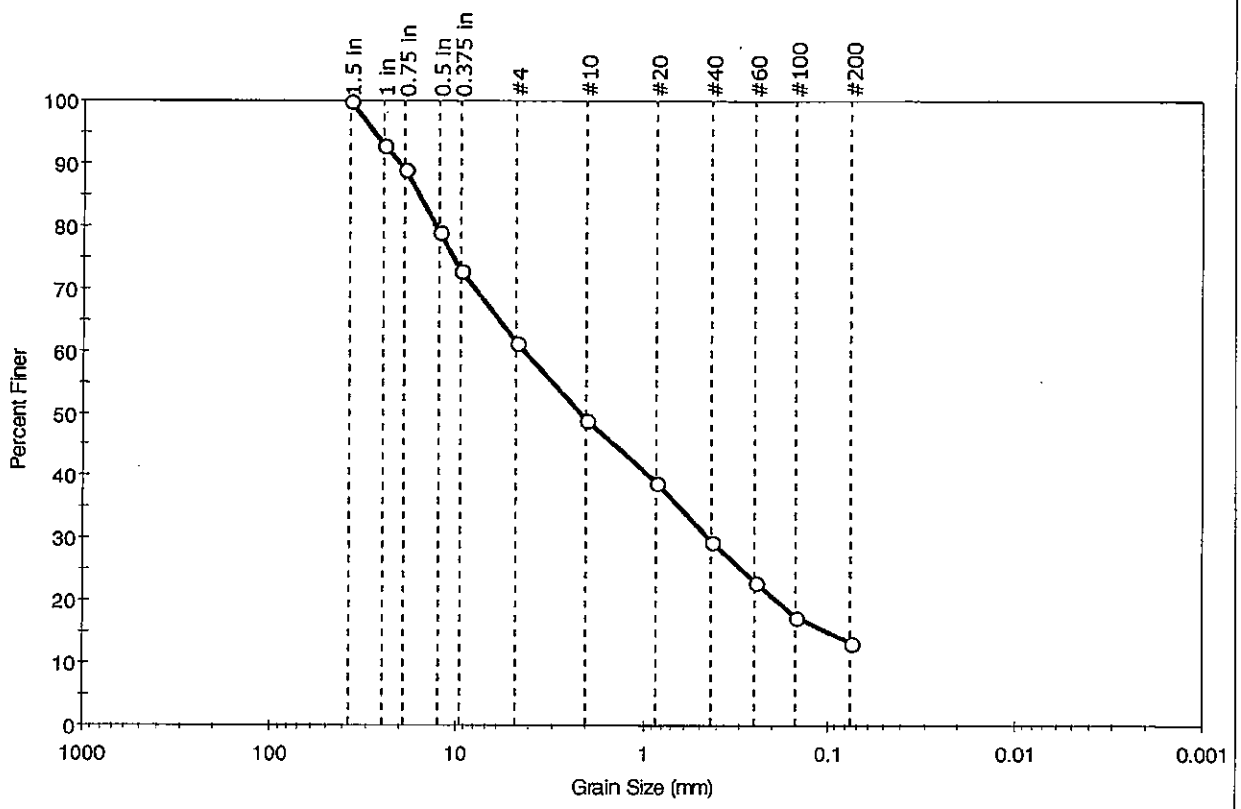
Toughness: n/a

The sample was determined to be Non-Plastic

GeoTesting EXPRESS

Client:	TRC Companies Inc.		
Project:	Stamford Urban Transitway		
Location:	Stamford, CT	Project No:	GTX-10884
Boring ID: ETI WSA	Sample Type: bag	Tested By:	jbr
Sample ID:Myrtle 7	Test Date: 06/08/11	Checked By:	jdt
Depth : ---	Test Id: 209813		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand with gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	38.5	48.3	13.2

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1.5 in	37.50	100		
1 in	25.00	93		
0.75 in	19.00	89		
0.5 in	12.50	79		
0.375 in	9.50	73		
#4	4.75	61		
#10	2.00	49		
#20	0.85	39		
#40	0.42	30		
#60	0.25	23		
#100	0.15	17		
#200	0.075	13		

Coefficients

D_{85} = 16.0509 mm D_{30} = 0.4390 mm
D_{60} = 4.2930 mm D_{15} = 0.1013 mm
D_{50} = 2.1366 mm D_{10} = 0.0449 mm
C_u = N/A C_c = N/A

Classification

ASTM Silty sand with gravel (SM)

AASHTO Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD

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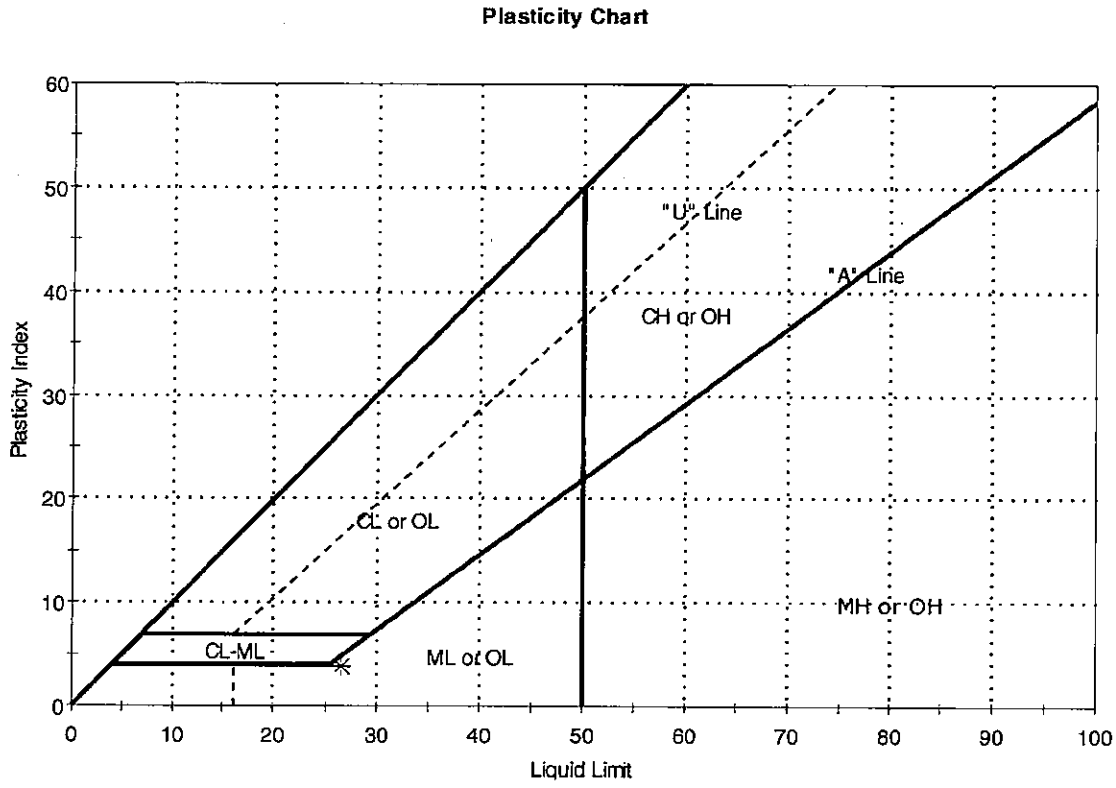
GeoTesting EXPRESS

Client:	TRC Companies Inc.		
Project:	Stamford Urban Transitway		
Location:	Stamford, CT	Project No:	GTX-10884
Boring ID: ETI WSA	Sample Type: bag	Tested By:	cam
Sample ID:Myrtle 7	Test Date: 06/09/11	Checked By:	jdt
Depth : ---	Test Id: 209820		
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand with gravel		
Sample Comment:	---		

Atterberg Limits - ASTM D 4318-05



Symbol	Sample ID	Boring	Depth	Natural Moisture Content,%	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
*	Myrtle 7	ETI WSA	---	9	27	23	4	-3	Silty sand with gravel (SM)

Sample Prepared using the WET method
70% Retained on #40 Sieve
Dry Strength: VERY HIGH
Dilentancy: SLOW
Toughness: LOW

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