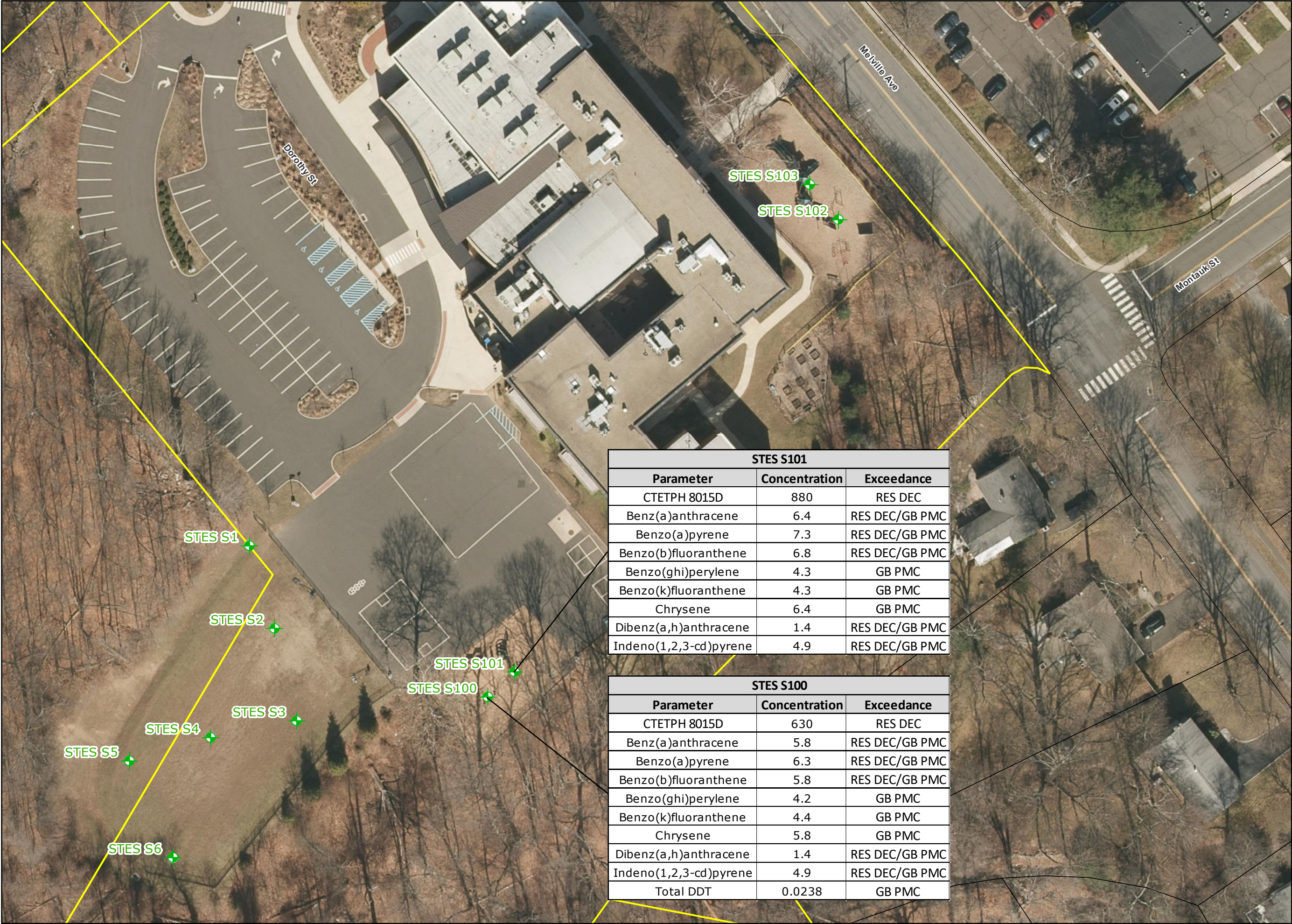




EXCEEDANCE SUMMARY

LEGEND

- Approximate Sample Location
- Approximate Site Parcel
- Approximate Parcel Boundary

LOCUS MAP

0 25 50
Feet
1:600

NOTES

1. Based on 2016 Statewide Orthophotography, Courtesy of CTECO.

Stratfield Elementary Playground
1407 Melville Avenue
Fairfield, Connecticut

September 2019

Tighe&Bond
Engineers | Environmental Specialists

STES S101		
Parameter	Concentration	Exceedance
CTETPH 8015D	880	RES DEC
Benz(a)anthracene	6.4	RES DEC/GB PMC
Benzo(a)pyrene	7.3	RES DEC/GB PMC
Benzo(b)fluoranthene	6.8	RES DEC/GB PMC
Benzo(ghi)perylene	4.3	GB PMC
Benzo(k)fluoranthene	4.3	GB PMC
Chrysene	6.4	GB PMC
Dibenz(a,h)anthracene	1.4	RES DEC/GB PMC
Indeno(1,2,3-cd)pyrene	4.9	RES DEC/GB PMC

STES S100		
Parameter	Concentration	Exceedance
CTETPH 8015D	630	RES DEC
Benz(a)anthracene	5.8	RES DEC/GB PMC
Benzo(a)pyrene	6.3	RES DEC/GB PMC
Benzo(b)fluoranthene	5.8	RES DEC/GB PMC
Benzo(ghi)perylene	4.2	GB PMC
Benzo(k)fluoranthene	4.4	GB PMC
Chrysene	5.8	GB PMC
Dibenz(a,h)anthracene	1.4	RES DEC/GB PMC
Indeno(1,2,3-cd)pyrene	4.9	RES DEC/GB PMC
Total DDT	0.0238	GB PMC

STRATFIELD ELEMENTARY SCHOOL PLAYGROUND

Summary of Analytical Data
Fairfield, Connecticut
Last Updated: 09/10/2019

Sample ID	CT RSR Criteria		US EPA	STES S100	STES S101	STES S101	STES S102	JES S103
Sample Depth				2.25-2.5 FT	2.0-2.25 FT	ASPHALT	1.0-1.25 FT	1.5-1.75 FT
Sample Date				9/4/19	9/4/19	9/4/19	9/4/19	9/4/19
Lab Sample ID				CD97451	CD97452	CD97455	CD97453	CD97454
Asbestos PLM 198.1²								
% Amosite	NA	NA	NA	0.0%	0.0%	-	0.0%	0.0%
% Chrysotile	NA	NA	NA	0.0%	0.0%	-	0.0%	0.0%
% Other	NA	NA	NA	0.0%	0.0%	-	0.0%	0.0%
% Total Asbestos	NA	NA	1%	0.0%	0.0%	-	0.0%	0.0%
Total Metals 6010D								
Arsenic	10	NA	NA	2.33	3.1	-	4.11	5.26
Lead	400	NA	NA	21.55	23.8	-	34.3	9.4
CTETPH 8015D (mg/Kg)	500	2500	NA	630	880	-	<70	56
PCBs SW8082A (mg/Kg)								
PCB-1016	NE	NA	NA	<0.37	<0.37	<0.75	<0.48	<0.36
PCB-1221	NE	NA	NA	<0.37	<0.37	<0.75	<0.48	<0.36
PCB-1232	NE	NA	NA	<0.37	<0.37	<0.75	<0.48	<0.36
PCB-1242	NE	NA	NA	<0.37	<0.37	<0.75	<0.48	<0.36
PCB-1248	NE	NA	NA	<0.37	<0.37	<0.75	<0.48	<0.36
PCB-1254	NE	NA	NA	<0.37	<0.37	<0.75	<0.48	<0.36
PCB-1260	NE	NA	NA	<0.37	<0.37	<0.75	<0.48	<0.36
PCB-1262	NE	NA	NA	<0.37	<0.37	<0.75	<0.48	<0.36
PCB-1268	NE	NA	NA	<0.37	<0.37	<0.75	<0.48	<0.36
Total PCBs	1	NA	NA	<0.37	<0.37	<0.75	<0.48	<0.36
PAHs SW8270D (mg/Kg)								
2-Methylnaphthalene	270	5.6	NA	0.43	0.29	-	<0.330	<0.26
Acenaphthene	1,000	84	NA	<0.250	<0.250	-	<0.330	<0.26
Acenaphthylene	1,000	84	NA	3.2	3.5	-	<0.330	<0.26
Anthracene	1,000	400	NA	2.4	2.7	-	<0.330	<0.26
Benz(a)anthracene	1	1	NA	5.8	6.4	-	<0.330	<0.26
Benzo(a)pyrene	1	1	NA	6.3	7.3	-	<0.330	<0.26
Benzo(b)fluoranthene	1	1	NA	5.8	6.8	-	<0.330	<0.26
Benzo(ghi)perylene	8.4	1	NA	4.2	4.3	-	<0.330	<0.26
Benzo(k)fluoranthene	8.4	1	NA	4.4	4.3	-	<0.330	<0.26
Chrysene	84	1	NA	5.8	6.4	-	<0.330	<0.26
Dibenz(a,h)anthracene	1	1	NA	1.4	1.4	-	<0.330	<0.26
Fluoranthene	1,000	56.0	NA	9.7	13	-	<0.330	<0.26
Fluorene	1,000	56.0	NA	1.3	1.4	-	<0.330	<0.26
Indeno(1,2,3-cd)pyrene	1	1	NA	4.9	4.9	-	<0.330	<0.26
Naphthalene	1,000	56.0	NA	0.47	0.32	-	<0.330	<0.26
Phenanthrene	1,000	40	NA	7.2	4.8	-	<0.330	<0.26
Pyrene	1,000	40	NA	11	14	-	<0.330	<0.26
Pesticides By SW8081B (mg/Kg)								
4,4' -DDD	NE	NE	NA	0.0089	0.0062	-	<0.0019	<0.0014
4,4' -DDE	NE	NE	NA	0.0055	<0.0015	-	<0.0019	<0.0014
4,4' -DDT	NE	NE	NA	0.0094	0.0074	-	<0.0019	<0.0014
Total DDT	1.8	0.02	NA	0.0238	0.0062	-	<0.0019	<0.0014
a-BHC	0.34	0.01	NA	<0.0015	<0.0015	-	<0.0019	<0.0014
Alachlor	7.7	0.4	NA	<0.0073	<0.0076	-	<0.0096	<0.0072
Aldrin	0.04	0.01	NA	<0.002	<0.002	-	<0.0019	<0.0014
b-BHC	0.34	0.01	NA	<0.0015	<0.0015	-	<0.0019	<0.0014
Chlordane	0.49	0.066	NA	<0.036	<0.038	-	<0.048	<0.036
d-BHC	0.34	0.01	NA	<0.0015	<0.002	-	<0.0019	<0.0014
Dieldrin	0.038	0.007	NA	<0.0036	<0.0038	-	<0.0048	<0.0036
Endosulfan I	41	0.84	NA	<0.0073	<0.0076	-	<0.0096	<0.0072
Endosulfan II	41	0.84	NA	<0.0073	<0.0076	-	<0.0096	<0.0072
Endosulfan sulfate	41	0.84	NA	<0.0073	<0.0076	-	<0.0096	<0.0072
Endrin	20	0.4	NA	<0.0073	<0.0076	-	<0.0096	<0.0072
Endrin aldehyde	20	0.4	NA	<0.0073	<0.0076	-	<0.0096	<0.0072
Endrin ketone	20	0.4	NA	<0.0073	<0.0076	-	<0.0096	<0.0072
q-BHC	20	0.04	NA	<0.0015	<0.0015	-	<0.0019	<0.0014
Heptachlor	0.14	0.013	NA	<0.0073	<0.0076	-	<0.0096	<0.0072
Heptachlor epoxide	0.067	0.02	NA	<0.0073	<0.0076	-	<0.0096	<0.0072
Methoxychlor	340	8	NA	<0.036	<0.038	-	<0.048	<0.036
Toxaphene	0.56	0.6	NA	<0.15	<0.15	-	<0.19	<0.14

CTDEEP RSRs- Connecticut Department of Energy and Environmental Protection Remediation Standard Regulations (June 27, 2013)

US EPA - United State Environmental Protection Agency

RES DEC-Residential Direct Exposure Criteria

GB PMC- Pollutant Mobility Criteria in a GB groundwater area

NE- Not established

NA- Not Applicable

CT ETPH- Connecticut Department of Public Health Extractable Total Petroleum Hydrocarbons

PAHs- Polycyclic Aromatic Hydrocarbons

PCBs- Polychlorinated Biphenyls

< xx indicates compound was not detected. Detection limit is provided.

Boxed values indicate exceedances of RES DEC

Grey values indicate exceedances of GB PMC

²- Asbestos analysis of Bulk Materials via 40 CFR Part 763, Sub. E, App. E/NYS-DOH 198.1 (PLM) by Eastern Analytical Services, Inc.