



SES S4		
Parameter	Concentration	Exceedance
Benz(a)anthracene	1.3	GB PMC
Benzo(a)pyrene	1.3	GB PMC
Chrysene	1.4	GB PMC

SES S5		
Parameter	Concentration	Exceedance
Benz(a)anthracene	1.1	GB PMC
Benzo(a)pyrene	1.3	GB PMC
Benzo(b)fluoranthene	1.2	GB PMC
Chrysene	1.2	GB PMC

DUP E		
Parameter	Concentration	Exceedance
Benz(a)anthracene	1.1	GB PMC
Benzo(a)pyrene	1.4	GB PMC
Benzo(b)fluoranthene	1.1	GB PMC
Benzo(k)fluoranthene	1.1	GB PMC
Chrysene	1.3	GB PMC

SES S6		
Parameter	Concentration	Exceedance
Total DDT	0.025	GB PMC

SES S9		
Parameter	Concentration	Exceedance
Benz(a)anthracene	1.2	GB PMC
Benzo(a)pyrene	1.5	GB PMC
Benzo(b)fluoranthene	1.2	GB PMC
Benzo(k)fluoranthene	1.1	GB PMC
Chrysene	1.4	GB PMC

EXCEEDANCE SUMMARY

LEGEND

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

LOCUS MAP

NOTES

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

Sherman Elementary
250 Fern Street
Fairfield, Connecticut

September 2019

Tighe&Bond
Engineers | Environmental Specialists

SHERMAN ELEMENTARY SCHOOL
Summary of Soil Sample Analytical Data
Fairfield, Connecticut
Last Updated: 09/09/2019

Sample ID	CT RSR Criteria		US EPA	SES S1	SES S2	SES S3	SES S4	SES S5	DUP E	SES S6	PACM- SES-S6	SES S7	SES S8	SES S9	SES S10	SES S11	SES S12
Sample Depth	RES DEC	GB PMC		0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	-	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
Sample Date				8/28/19	8/28/19	8/28/19	8/28/19	8/28/19	8/28/19	8/28/19	8/28/19	8/28/19	8/28/19	8/28/19	8/28/19	8/28/19	8/28/19
Lab Sample ID				CD93926	CD93927	CD93928	CD93929	CD93930	CD93938	CD93931	Near S6	CD93932	CD93933	CD93934	CD93935	CD93936	CD93937
Asbestos in Material by PLM¹	NA	NA	1%	-	-	-	-	-	-	-	ND	-	-	-	-	-	-
Asbestos PLM 198.1²																	
% Amosite	NA	NA	NA	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
% Chrysotile	NA	NA	NA	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
% Other	NA	NA	NA	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
% Total Asbestos	NA	NA	1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total Metals 6010D																	
Arsenic	10	NA	NA	2.2	2.26	4.42	4.6	3.7	3.85	5.46	-	2.29	4.33	4.41	3.44	6.37	3.59
Lead	400	NA	NA	6.12	8.75	36.7	27.6	22.1	22.2	30.8	-	16.3	29	21.8	18.6	33.9	33.8
CTETPH 8015D (mg/Kg)	500	2500	NA	<54	<52	<73	<56	<58	<57	<64	-	<59	<62	<55	<58	<78	<56
PCBs SW8082A (mg/Kg)																	
PCB-1016	NE	NA	NA	<0.36	<0.35	<0.49	<0.37	<0.39	<0.38	<0.42	-	<0.39	<0.41	<0.37	<0.38	<0.51	<0.38
PCB-1221	NE	NA	NA	<0.36	<0.35	<0.49	<0.37	<0.39	<0.38	<0.42	-	<0.39	<0.41	<0.37	<0.38	<0.51	<0.38
PCB-1232	NE	NA	NA	<0.36	<0.35	<0.49	<0.37	<0.39	<0.38	<0.42	-	<0.39	<0.41	<0.37	<0.38	<0.51	<0.38
PCB-1242	NE	NA	NA	<0.36	<0.35	<0.49	<0.37	<0.39	<0.38	<0.42	-	<0.39	<0.41	<0.37	<0.38	<0.51	<0.38
PCB-1248	NE	NA	NA	<0.36	<0.35	<0.49	<0.37	<0.39	<0.38	<0.42	-	<0.39	<0.41	<0.37	<0.38	<0.51	<0.38
PCB-1254	NE	NA	NA	<0.36	<0.35	<0.49	<0.37	<0.39	<0.38	<0.42	-	<0.39	<0.41	<0.37	<0.38	<0.51	<0.38
PCB-1260	NE	NA	NA	<0.36	<0.35	<0.49	<0.37	<0.39	<0.38	<0.42	-	<0.39	<0.41	<0.37	<0.38	<0.51	<0.38
PCB-1262	NE	NA	NA	<0.36	<0.35	<0.49	<0.37	<0.39	<0.38	<0.42	-	<0.39	<0.41	<0.37	<0.38	<0.51	<0.38
PCB-1268	NE	NA	NA	<0.36	<0.35	<0.49	<0.37	<0.39	<0.38	<0.42	-	<0.39	<0.41	<0.37	<0.38	<0.51	<0.38
Total PCBs	1	NA	NA	<0.36	<0.35	<0.49	<0.37	<0.39	<0.38	<0.42	-	<0.39	<0.41	<0.37	<0.38	<0.51	<0.38
PAHs SW8270D (mg/Kg)																	
2-Methylnaphthalene	270	5.6	NA	<0.250	<0.240	<0.350	<0.260	<0.270	<0.270	<0.300	-	<0.280	<0.290	<0.260	<0.270	<0.360	<0.260
Acenaphthene	1,000	84	NA	<0.250	<0.240	<0.350	<0.260	<0.270	<0.270	<0.300	-	<0.280	<0.290	<0.260	<0.270	<0.360	<0.260
Acenaphthylene	1,000	84	NA	<0.250	<0.240	<0.350	0.320	0.350	0.350	<0.300	-	<0.280	<0.290	0.440	<0.270	<0.360	<0.260
Anthracene	1,000	400	NA	<0.250	<0.240	<0.350	<0.260	<0.270	<0.270	<0.300	-	<0.280	<0.290	<0.260	<0.270	<0.360	<0.260
Benz(a)anthracene	1	1	NA	<0.250	<0.240	<0.350	1.300	1.100	1.100	0.440	-	<0.280	<0.290	1.200	<0.270	0.430	0.66
Benzo(a)pyrene	1	1	NA	<0.250	<0.240	<0.350	1.300	1.300	1.400	0.570	-	<0.280	<0.290	1.500	0.280	0.500	0.75
Benzo(b)fluoranthene	1	1	NA	<0.250	<0.240	<0.350	1.000	1.200	1.100	0.530	-	<0.280	<0.290	1.200	<0.270	0.430	0.67
Benzo(ghi)perylene	8.4	1	NA	<0.250	<0.240	<0.350	0.810	0.910	0.660	0.370	-	<0.280	<0.290	1.000	<0.270	<0.360	0.45
Benzo(k)fluoranthene	8.4	1	NA	<0.250	<0.240	<0.350	0.930	1.000	1.100	0.480	-	<0.280	<0.290	1.100	<0.270	0.460	0.66
Chrysene	84	1	NA	<0.250	<0.240	<0.350	1.400	1.200	1.300	0.550	-	<0.280	<0.290	1.400	0.290	0.480	0.68
Dibenz(a,h)anthracene	1	1	NA	<0.250	<0.240	<0.350	<0.260	<0.270	<0.270	<0.300	-	<0.280	<0.290	<0.260	<0.270	<0.360	<0.260
Fluoranthene	1,000	56.0	NA	<0.250	<0.240	0.370	1.700	1.200	1.400	0.590	-	<0.280	<0.290	1.400	0.350	0.540	0.75
Fluorene	1,000	56.0	NA	<0.250	<0.240	<0.350	<0.260	<0.270	<0.270	<0.300	-	<0.280	<0.290	<0.260	<0.270	<0.360	<0.260
Indeno(1,2,3-cd)pyrene	1	1	NA	<0.250	<0.240	<0.350	0.800	0.950	0.670	0.380	-	<0.280	<0.290	0.970	<0.270	0.380	0.5
Naphthalene	1,000	56.0	NA	<0.250	<0.240	<0.350	<0.260	<0.270	<0.270	<0.300	-	<0.280	<0.290	<0.260	<0.270	<0.360	<0.260
Phenanthrene	1,000	40	NA	<0.250	<0.240	<0.350	1.400	0.470	0.630	<0.300	-	<0.280	<0.290	0.830	<0.270	<0.360	<0.260
Pyrene	1,000	40	NA	<0.250	<0.240	0.370	1.900	1.300	1.800	0.690	-	<0.280	<0.290	1.700	0.380	0.610	0.76
Pesticides By SW8081B (mg/Kg)																	
4,4' -DDD	NE	NE	NA	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	0.004	-	<0.0016	<0.0017	<0.0015	<0.0015	<0.002	<0.0015
4,4' -DDE	NE	NE	NA	<0.001	<0.001	<0.002	0.005	0.003	0.004	0.013	-	<0.0016	0.0057	0.0032	0.006	0.0039	0.0027
4,4' -DDT	NE	NE	NA	<0.001	<0.001	<0.002	<0.002	0.005	0.009	0.008	-	<0.0016	0.006	0.0069	0.0076	0.012	0.0095
Total DDT	1.8	0.02	NA	<0.001	<0.001	<0.002	0.005	0.008	0.013	0.025	-	<0.0016	0.0117	0.0101	0.0136	0.0159	0.0122
a-BHC	0.34	0.01	NA	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.0016	<0.0017	<0.0015	<0.0015	<0.002	<0.0015
Alachlor	7.7	0.4	NA	<0.007	<0.007	<0.010	<0.007	<0.008	<0.008	<0.009	-	<0.0081	<0.0084	<0.0074	<0.0076	<0.01	<0.0074
Aldrin	0.04	0.01	NA	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.0016	<0.0017	<0.0015	<0.0015	<0.002	<0.0015
b-BHC	0.34	0.01	NA	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.0016	<0.0017	<0.002	<0.0015	<0.002	<0.0015
Chlordane	0.49	0.066	NA	<0.036	<0.035	<0.049	<0.037	<0.039	<0.038	<0.043	-	<0.04	<0.042	<0.037	<0.038	<0.051	<0.037
d-BHC	0.34	0.01	NA	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.0016	<0.0017	<0.0015	<0.0015	<0.002	<0.0015
Dieldrin	0.038	0.007	NA	<0.004	<0.004	<0.005	<0.004	<0.004	<0.004	<0.004	-	<0.004	<0.0042	<0.0037	<0.0038	<0.0051	<0.0037
Endosulfan I	41	0.84	NA	<0.007	<0.007	<0.010	<0.007	<0.008	<0.008	<0.009	-	<0.0081	<0.0084	<0.0074	<0.0076	<0.01	<0.0074
Endosulfan II	41	0.84	NA	<0.007	<0.007	<0.010	<0.007	<0.008	<0.008	<0.009	-	<0.0081	<0.0084	<0.0074	<0.0076	<0.01	<0.0074
Endosulfan sulfate	41	0.84	NA	<0.007	<0.007	<0.010	<0.007	<0.008	<0.008	<0.009	-	<0.0081	<0.0084	<0.0074	<0.0076	<0.01	<0.0074
Endrin	20	0.4	NA	<0.007	<0.007	<0.010	<0.007	<0.008	<0.008	<0.009	-	<0.0081	<0.0084	<0.0074	<0.0076	<0.01	<0.0074
Endrin aldehyde	20	0.4	NA	<0.007	<0.007	<0.010	<0.007	<0.008	<0.008	<0.009	-	<0.0081	<0.0084	<0.0074	<0.0076	<0.01	<0.0074
Endrin ketone	20	0.4	NA	<0.007	<0.007	<0.010	<0.007	<0.008	<0.008	<0.009	-	<0.0081	<0.0084	<0.0074	<0.0076	<0.01	<0.0074
g-BHC	20	0.04	NA	<0.001	<0.001	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.0016	<0.0017	<0.0015	<0.0015	<0.002	<0.0015
Heptachlor	0.14	0.013	NA	<0.007	<0.007	<0.010	<0.007	<0.008	<0.008	<0.009	-	<0.0081	<0.0084	<0.0074	<0.0076	<0.01	<0.0074
Heptachlor epoxide	0.067	0.02	NA	<0.007	<0.007	<0.010	<0.007	<0.008	<0.008	<0.009	-	<0.0081	<0.0084	<0.0074	<0.0076	<0.01	<0.0074
Methoxychlor	340	8	NA	<0.036	<0.035	<0.049	<0.037	<0.039	<0.038	<0.043	-	<0.04	<0.042	<0.037	<0.038	<0.051	<0.037
Toxaphene	0.56	0.6	NA	<0.140	<0.140	<0.190	<0.150	<0.160	<0.150	<0.170	-	<0.16	<0.17	<0.15	<0.15	<0.2	<0.15

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

RES DEC-Residential Direct Exposure Criteria

GA PMC- Pollutant Mobility Criteria in a GA groundwater area

NE- Not established

NA- Not Applicable

CT ETPH- Connecticut Department of Public Health Extractable Total

PAHs- Polycyclic Aromatic Hydrocarbons

PCBs- Polychlorinated Biphenyls

< xx indicates compound was not detected. Detection limit is

Boxed values indicate exceedances of RES DEC

Grey values indicate exceedances of GB PMC

ND- None Detected

PACM- Potential Asbestos Containing Material

¹- Asbestos analysis of Bulk Materials via EPA 600/R-93/116 Method