



EXCEEDANCE SUMMARY

LEGEND

- Approximate Monitoring Well
- Approximate Sample Location
- Approximate Site Parcel
- Approximate Parcel Boundary

LOCUS MAP

NOTES

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

McKinley Elementary School Playground
60 Thompson Street
Fairfield, Connecticut

September 2019

Tighe&Bond
Engineers | Environmental Specialists

MCKINLEY ELEMENTARY SCHOOL PLAYGROUND

Summary of Analytical Data

Fairfield, Connecticut

Last Updated: 09/16/2019

Last Updated: 09/10/2019									
Sample ID Sample Depth Sample Date Lab Sample ID	CT RSR Criteria			US EPA	MES S100	MES DUP 9-5	MES S101	MES S102	MES S103
	RES DEC	GB PMC	GWPC X10		1.5-1.75 FT 9/5/19 CD98475	1-1.5 ft 9/5/19 CD98479	1.5-1.75 FT 9/5/19 CD98476	0-0.5 FT 9/5/19 CD98477	0-0.5 FT 9/5/19 CD98478
Asbestos PLM 198.1²									
% Amosite	NA	NA	NA	NA	0.0%	0.0%	0.0%	0.0%	0.0%
% Chrysotile	NA	NA	NA	NA	0.0%	0.0%	0.0%	0.0%	0.0%
% Other	NA	NA	NA	NA	0.0%	0.0%	0.0%	0.0%	0.0%
% Total Asbestos	NA	NA	NA	1%	0.0%	0.0%	0.0%	0.0%	0.0%
Total Metals 6010D									
Arsenic	10	NA	NA	NA	2.87	3.06	3.49	6.12	25.2
Lead	400	NA	NA	NA	25.4	26.5	41.3	80.7	55.5
CTETPH 8015D (mg/Kg)	500	2500	NA	NA	<58	<300	<290	<310	<330
PCBs SW8082A (mg/Kg)									
PCB-1016	NE	NA	NA	NA	<0.390	<0.41	<0.38	<0.41	<0.44
PCB-1221	NE	NA	NA	NA	<0.390	<0.41	<0.38	<0.41	<0.44
PCB-1232	NE	NA	NA	NA	<0.390	<0.41	<0.38	<0.41	<0.44
PCB-1242	NE	NA	NA	NA	<0.390	<0.41	<0.38	<0.41	<0.44
PCB-1248	NE	NA	NA	NA	<0.390	<0.41	<0.38	<0.41	<0.44
PCB-1254	NE	NA	NA	NA	<0.390	<0.41	<0.38	<0.41	<0.44
PCB-1260	NE	NA	NA	NA	<0.390	<0.41	<0.38	<0.41	<0.44
PCB-1262	NE	NA	NA	NA	<0.390	<0.41	<0.38	<0.41	<0.44
PCB-1268	NE	NA	NA	NA	<0.390	<0.41	<0.38	<0.41	<0.44
Total PCBs	1	NA	NA	NA	<0.390	<0.41	<0.38	<0.41	<0.44
PAHs SW8270D (mg/Kg)									
2-Methylnaphthalene	270	5.6	NA	NA	<0.27	<0.29	<0.27	<0.29	<0.31
Acenaphthene	1,000	84	NA	NA	<0.27	<0.29	<0.27	<0.29	<0.31
Acenaphthylene	1,000	84	NA	NA	<0.27	<0.29	<0.27	0.29	<0.31
Anthracene	1,000	400	NA	NA	<0.27	<0.29	<0.27	<0.29	<0.31
Benz(a)anthracene	1	1	NA	NA	<0.27	0.31	0.62	1.1	0.59
Benzo(a)pyrene	1	1	NA	NA	<0.27	0.32	0.71	1.3	0.77
Benzo(b)fluoranthene	1	1	NA	NA	<0.27	<0.29	0.73	1.4	0.66
Benzo(ghi)perylene	8.4	1	NA	NA	<0.27	<0.29	0.47	0.81	0.54
Benzo(k)fluoranthene	8.4	1	NA	NA	<0.27	0.31	0.64	1.2	0.57
Chrysene	84	1	NA	NA	<0.27	0.31	0.7	1.5	0.73
Dibenz(a,h)anthracene	1	1	NA	NA	<0.27	<0.29	<0.27	<0.29	<0.31
Fluoranthene	1,000	56.0	NA	NA	0.5	0.67	1.3	2.3	1.1
Fluorene	1,000	56.0	NA	NA	<0.27	<0.29	<0.27	<0.29	<0.31
Indeno(1,2,3-cd)pyrene	1	1	NA	NA	<0.27	<0.29	0.48	0.88	0.55
Naphthalene	1,000	56.0	NA	NA	<0.27	<0.29	<0.27	<0.29	<0.31
Phenanthrene	1,000	40	NA	NA	0.46	0.54	0.52	1.1	0.55
Pyrene	1,000	40	NA	NA	0.43	0.56	1.2	2.2	1.1
SPLP PAHs SW8270D (ug/L)									
2-Methylnaphthalene	NA	NA	280	NA	-	-	-	<0.5	-
Acenaphthene	NA	NA	4200	NA	-	-	-	<0.5	-
Acenaphthylene	NA	NA	4200	NA	-	-	-	<0.3	-
Anthracene	NA	NA	20000	NA	-	-	-	<0.5	-
Benz(a)anthracene	NA	NA	0.6	NA	-	-	-	<0.05	-
Benzo(a)pyrene	NA	NA	2	NA	-	-	-	<0.2	-
Benzo(b)fluoranthene	NA	NA	0.8	NA	-	-	-	<0.07	-
Benzo(ghi)perylene	NA	NA	4.8	NA	-	-	-	<0.48	-
Benzo(k)fluoranthene	NA	NA	5	NA	-	-	-	<0.3	-
Chrysene	NA	NA	48	NA	-	-	-	<0.5	-
Dibenz(a,h)anthracene	NA	NA	1	NA	-	-	-	<0.1	-
Fluoranthene	NA	NA	2800	NA	-	-	-	<0.5	-
Fluorene	NA	NA	2800	NA	-	-	-	<0.5	-
Indeno(1,2,3-cd)pyrene	NA	NA	1	NA	-	-	-	<0.1	-
Naphthalene	NA	NA	2800	NA	-	-	-	<0.5	-
Phenanthrene	NA	NA	2000	NA	-	-	-	0.2	-
Pyrene	NA	NA	2000	NA	-	-	-	<0.5	-

MCKINLEY ELEMENTARY SCHOOL PLAYGROUND

Summary of Analytical Data
Fairfield, Connecticut
Last Updated: 09/16/2019

East Updated: 05/10/2019

Sample ID Sample Depth Sample Date Lab Sample ID	CT RSR Criteria			US EPA	MES S100	MES DUP 9-5	MES S101	MES S102	MES S103
	RES DEC	GB PMC	GWPC X10		1.5-1.75 FT	1-1.5 ft	1.5-1.75 FT	0-0.5 FT	0-0.5 FT
					9/5/19 CD98475	9/5/19 CD98479	9/5/19 CD98476	9/5/19 CD98477	9/5/19 CD98478
Pesticides By SW8081B (mg/Kg)									
4,4' -DDD	NE	NE	NA	NA	<0.0016	<0.0017	<0.003	0.015	<0.0018
4,4' -DDE	NE	NE	NA	NA	<0.0016	<0.0017	<0.003	0.029	0.015
4,4' -DDT	NE	NE	NA	NA	<0.0016	<0.0017	<0.0015	0.035	0.019
Total DDT	1.8	0.02	NA	NA	<0.0016	<0.0017	<0.0015	0.079	0.034
a-BHC	0.34	0.01	NA	NA	<0.0016	<0.0017	<0.0075	<0.0017	<0.0018
Alachlor	7.7	0.4	NA	NA	<0.0078	<0.0083	<0.0015	<0.0084	<0.0088
Aldrin	0.04	0.01	NA	NA	<0.0016	<0.0017	<0.0015	<0.0017	<0.0018
b-BHC	0.34	0.01	NA	NA	<0.0016	<0.0017	<0.038	0.016	<0.0018
Chlordane	0.49	0.066	NA	NA	<0.039	<0.042	<0.0015	<0.0017	0.17
d-BHC	0.34	0.01	NA	NA	<0.0016	<0.0017	<0.0038	<0.0042	<0.0018
Dieldrin	0.038	0.007	NA	NA	<0.0039	<0.0042	<0.0075	<0.0084	<0.0044
Endosulfan I	41	0.84	NA	NA	<0.0078	<0.0083	<0.0075	<0.0084	<0.0088
Endosulfan II	41	0.84	NA	NA	<0.0078	<0.0083	<0.0075	<0.0084	<0.0088
Endosulfan sulfate	41	0.84	NA	NA	<0.0078	<0.0083	<0.0075	<0.0084	<0.0088
Endrin	20	0.4	NA	NA	<0.0078	<0.0083	<0.0075	<0.0084	<0.0088
Endrin aldehyde	20	0.4	NA	NA	<0.0078	<0.0083	<0.0075	<0.0084	<0.0088
Endrin ketone	20	0.4	NA	NA	<0.0078	<0.0083	<0.0075	<0.0084	<0.0088
g-BHC	20	0.04	NA	NA	<0.0016	<0.0017	<0.0015	<0.0017	<0.0018
Heptachlor	0.14	0.013	NA	NA	<0.0078	<0.0083	<0.0075	<0.0084	<0.0088
Heptachlor epoxide	0.067	0.02	NA	NA	<0.0078	<0.0083	<0.0075	<0.0084	<0.0088
Methoxychlor	340	8	NA	NA	<0.039	<0.042	<0.038	<0.042	<0.044
Toxaphene	0.56	0.6	NA	NA	<0.16	<0.17	<0.15	<0.17	<0.18
SPLP Pesticides By SW8081B (ug/L)									
4,4' -DDD	NA	NA	NE	NA	-	-	-	<0.02	<0.90
4,4' -DDE	NA	NA	NE	NA	-	-	-	<0.006	0.3
4,4' -DDT	NA	NA	NE	NA	-	-	-	<0.006	0.28
Total DDT	NA	NA	1	NA	-	-	-	<0.006	0.58
a-BHC	NA	NA	0.5	NA	-	-	-	<0.006	<0.065
Alachlor	NA	NA	20	NA	-	-	-	<0.011	<0.13
Aldrin	NA	NA	0.5	NA	-	-	-	<0.003	<0.039
b-BHC	NA	NA	0.5	NA	-	-	-	<0.025	<0.065
Chlordane	NA	NA	3	NA	-	-	-	<0.055	1.6
d-BHC	NA	NA	0.5	NA	-	-	-	<0.035	<0.6
Dieldrin	NA	NA	0.02	NA	-	-	-	<0.002	0.059
Endosulfan I	NA	NA	42	NA	-	-	-	<0.006	<0.065
Endosulfan II	NA	NA	42	NA	-	-	-	<0.006	<0.065
Endosulfan sulfate	NA	NA	42	NA	-	-	-	<0.006	<0.065
Endrin	NA	NA	20	NA	-	-	-	<0.006	<0.065
Endrin aldehyde	NA	NA	20	NA	-	-	-	<0.006	<0.065
Endrin ketone	NA	NA	20	NA	-	-	-	<0.006	<0.065
q-BHC	NA	NA	2	NA	-	-	-	<0.006	<0.065
Heptachlor	NA	NA	4	NA	-	-	-	<0.006	<0.065
Heptachlor epoxide	NA	NA	2	NA	-	-	-	<0.006	0.099
Methoxychlor	NA	NA	400	NA	-	-	-	<0.006	<0.065
Toxaphene	NA	NA	30	NA	-	-	-	<0.22	<2.6

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

GWPC - Groundwater Protection Criteria

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 shaded values indicate exceedances of GB PMC

Blue values indicate exceedances of GWPC

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.

PMC compliance was