



Town of Fairfield

Health Department

Date: 8/30/19
From: Sands Cleary, Health Director
Re: Jennings Beach 8/22/19 Sampling Results – Grass Area around Playground

At Jennings Beach 5 soil samples in the grass area outside of the playground area were tested for Asbestos, Arsenic, Lead, Extractable Total Petroleum Hydrocarbon (ETPH), PCB's, and Polycyclic Aromatic Hydrocarbon (PAH). 1 sample of material was tested for asbestos.

Of the six samples collected one had a marginal exceedance for PAH's. This sample was located away from the playground, closer to the parking area.

Based the sampling results to date Tighe and Bond, in consultation with DPH, have advised the Town that use of the fields and areas by children and adults can continue without risk of health effects. Out of abundance of caution, those areas where exceedances were found will be cordoned off until further evaluation and remediation.

When reviewing the following results page, the first column shows the different constituents tested for. The next two columns have the applicable standards which are defined in the key at the bottom of that page. The right most column shows the results of each individual sample.

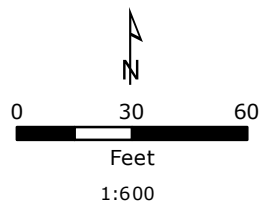


EXCEEDANCE SUMMARY

LEGEND

- Bulk Sample
- + Approximate Sample Location
- Approximate Site Parcel
- Approximate Parcel Boundary

LOCUS MAP



NOTES

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

Jennings Beach
880 South Benson Road
Fairfield, Connecticut

August 2019

Tighe & Bond
 Engineers | Environmental Specialists

JB S2		
Parameter	Concentration	Exceedance
Benz(a)anthracene	2.9	RES DEC/GA PMC
Benzo(a)pyrene	3.4	RES DEC/GA PMC
Benzo(b)fluoranthene	3.1	RES DEC/GA PMC
Benzo(ghi)perylene	1.7	GA PMC
Benzo(k)fluoranthene	2.5	GA PMC
Chrysene	2.6	GA PMC
Fluoranthene	5.9	GA PMC
Indeno(1,2,3-cd)pyrene	1.8	RES DEC/GA PMC
Pyrene	5.1	GA PMC

JENNINGS BEACH
Summary of Soil Sample Analytical Data
Fairfield, Connecticut
Last Updated: 08/29/2019

Sample ID Sample Depth Sample Date Lab Sample ID	CT RSR Criteria		US EPA	JB S1	JB S2	JB S3	JB S4	JB S5	PACM-JB S1 Near Playground 8/22/19 -0001
	RES DEC	GA PMC		0-0.5 ft 8/22/19 CD90737	0-0.5 ft 8/22/19 CD90738	0-0.5 ft 8/22/19 CD90739	0-0.5 ft 8/22/19 CD90740	0-0.5 ft 8/22/19 CD90741	
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%	-
% Chrysotile	NA	NA	NA	0.0%	0.0%	0.0%	0.0%	0.0%	-
% Other	NA	NA	NA	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%	-
Total Metals 6010D									
Arsenic	10	NA	NA	3.12	3.99	6.52	5.02	0.63	-
Lead	400	NA	NA	18.3	23.6	30.9	52.8	3.24	-
CTETPH 8015D (mg/Kg)	500	500	NA	<54	160	82	<58	<50	-
PCBs SW8082A (mg/Kg)									
PCB-1016	NE	NA	NA	<0.36	<0.35	<0.41	<0.38	<0.34	-
PCB-1221	NE	NA	NA	<0.36	<0.35	<0.41	<0.38	<0.34	-
PCB-1232	NE	NA	NA	<0.36	<0.35	<0.41	<0.38	<0.34	-
PCB-1242	NE	NA	NA	<0.36	<0.35	<0.41	<0.38	<0.34	-
PCB-1248	NE	NA	NA	<0.36	<0.35	<0.41	<0.38	<0.34	-
PCB-1254	NE	NA	NA	<0.36	<0.35	<0.41	<0.38	<0.34	-
PCB-1260	NE	NA	NA	<0.36	<0.35	<0.41	<0.38	<0.34	-
PCB-1262	NE	NA	NA	<0.36	<0.35	<0.41	<0.38	<0.34	-
PCB-1268	NE	NA	NA	<0.36	<0.35	<0.41	<0.38	<0.34	-
Total PCBs	1	NA	NA	<0.36	<0.35	<0.41	<0.38	<0.34	-
PAHs SW8270D (mg/Kg)									
2-Methylnaphthalene	270	0.56	NA	<250	<250	<290	<270	<240	-
Acenaphthene	1,000	8	NA	<250	<250	<290	<270	<240	-
Acenaphthylene	1,000	8	NA	<250	0.82	<290	<270	<240	-
Anthracene	1,000	40	NA	<250	0.58	<290	<270	<240	-
Benz(a)anthracene	1	1	NA	<250	2.9	<290	0.34	<240	-
Benzo(a)pyrene	1	1	NA	0.28	3.4	0.37	0.41	<240	-
Benzo(b)fluoranthene	1	1	NA	0.29	3.1	0.4	0.53	<240	-
Benzo(ghi)perylene	8.4	1	NA	<250	1.7	0.36	0.31	<240	-
Benzo(k)fluoranthene	8.4	1	NA	<250	2.5	<290	0.34	<240	-
Chrysene	84	1	NA	<250	2.6	0.31	0.4	<240	-
Dibenz(a,h)anthracene	1	1	NA	<250	0.43	<290	<270	<240	-
Fluoranthene	1,000	5.6	NA	0.32	5.9	0.36	0.47	<240	-
Fluorene	1,000	5.6	NA	<250	<250	<290	<270	<240	-
Indeno(1,2,3-cd)pyrene	1	1	NA	<250	1.8	0.33	<270	<240	-
Naphthalene	1,000	5.6	NA	<250	<250	<290	<270	<240	-
Phenanthrene	1,000	4	NA	<250	2.4	<290	<270	<240	-
Pyrene	1,000	4	NA	0.3	5.1	0.37	0.46	<240	-

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 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

Bold values indicate exceedances of I/C DEC

ND- None Detected

PACM- Potential Asbestos Containing Material

¹- Asbestos analysis of Bulk Materials via EPA 600/R-93/116 Method Using Polarized Light Microscopy at EMSL Analytical, Inc.

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.