

MassDEP VOC Air Monitoring Fore - River HIA

Sample Date / Pollutant Detected	Hingham Stodder's Neck ug/m3	Quincy Germantown-1 ug/m3	Quincy Germantown-2 ug/m3	Weymouth Embridge ug/m3	Weymouth FREC ug/m3	Braintree BELD ug/m3	TEL ug/m3
July 7 to July 8, 2018							
Acetone	6.44	6.87	8.2	7.96	7.98	6.65	160.54
Chloroform	0.127	0.156	0.156	0.151	0.166	0.166	132.76
Carbon Tetrachloride	0.39	0.415	0.528	0.415	0.365	0.377	85.52
Benzene	ND	ND	ND	ND	0.383	ND	0.6
Toluene	0.648	0.84	0.539	0.731	1.04	0.467	80
Ethyl Benzene	0.1	0.135	0.096	0.156	0.213	ND	300
Styrene	ND	0.915	ND	ND	ND	ND	200
Total Xylene	0.387	0.556	0.365	0.22	0.904	0.322	11.8
Naphthalene	ND	ND	ND	ND	0.278	ND	14.25
July 13 to July 14, 2018							
Acetone	6.27	6.49	6.1	6.77	6.39	6.6	160.54
Chloroform	0.176	0.166	0.151	0.151	0.181	0.234	132.76
Carbon Tetrachloride	0.491	0.528	0.522	0.44	0.51	0.522	85.52
Benzene	ND	ND	ND	ND	ND	ND	0.6
Toluene	0.441	0.388	0.403	0.433	0.558	0.433	80
Ethyl Benzene	ND	ND	ND	ND	0.104	ND	300
Styrene	ND	ND	ND	ND	0.115	ND	200
Total Xylene	0.343	0.222	0.278	0.291	0.425	0.322	11.8
Naphthalene	ND	ND	ND	ND	1.55	ND	14.25
July 19 to July 20, 2018							
Acetone	5.87	5.68	10.9	6.32	5.51	6.6	160.54
Chloroform	0.098	0.098	0.098	0.098	0.103	0.117	132.76
Carbon Tetrachloride	0.409	0.403	0.415	0.415	0.415	0.428	85.52
Benzene	ND	ND	ND	ND	ND	ND	0.6
Toluene	0.467	0.482	0.49	0.494	0.825	0.546	80
Ethyl Benzene	0.087	0.109	0.104	ND	0.174	0.113	300
Total Xylene	0.33	0.438	0.412	0.386	0.699	0.456	11.8
July 25 to July 26, 2018							
Acetone	4.66	4.44	5.23	4.7	6.01	5.37	160.54
Chloroform	ND	ND	ND	ND	0.098	ND	132.76
Carbon Tetrachloride	0.459	0.44	0.447	0.447	0.447	0.459	85.52
Benzene	ND	ND	ND	ND	ND	ND	0.6
Toluene	ND	0.219	0.211	0.249	0.283	0.241	80
Ethyl Benzene	ND	ND	ND	ND	ND	ND	300
Total Xylene	ND	ND	ND	ND	ND	ND	11.8
Tetrachloroethene	ND	ND	ND	ND	0.19	0.217	8
July 31 to August 1, 2018							
Acetone	8.93	7.25	7.51	8.03	7.03	10.3	160.54
Chloroform	0.112	0.132	0.112	0.117	0.117	0.137	132.76
Carbon Tetrachloride	0.472	0.459	0.453	0.459	0.459	0.453	85.52
Benzene	ND	ND	ND	ND	ND	ND	0.6
Toluene	0.558	0.814	0.52	0.848	0.384	0.433	80
Ethyl Benzene	ND	0.169	0.096	0.156	ND	ND	300
Styrene	ND	0.102	ND	0.128	ND	ND	200
Total Xylene	0.339	0.743	0.369	0.703	ND	ND	11.8
Naphthalene	ND	ND	ND	0.404	ND	ND	14.25
Methylene Chloride	ND	3.06	ND	ND	ND	ND	100
August 6 to August 7, 2018							
Acetone	14.3	13.1	13	15.1	15.4	14.1	160.54
Chloroform	0.142	0.132	0.132	0.127	0.137	0.142	132.76
Carbon Tetrachloride	0.453	0.434	0.44	0.434	0.465	0.447	85.52
Benzene	ND	0.342	0.345	0.326	0.482	0.355	0.6
Toluene	0.539	0.791	0.795	0.78	1.33	1.1	80
Ethyl Benzene	0.087	0.217	0.187	0.156	0.282	0.213	300
Total Xylene	0.309	0.838	0.664	0.621	1.238	0.925	11.8
111 Trichloroethane	ND	ND	ND	ND	ND	0.109	1038.37
Tetrachloroethene	0.298	ND	ND	ND	ND	ND	8
August 12 to August 13, 2018							
Acetone	3.16	3.47	3.37	3.11	2.8	ND	160.54
Chloroform	0.122	0.112	0.117	0.151	0.112	ND	132.76
Carbon Tetrachloride	0.421	0.421	0.44	0.472	0.491	0.549	85.52
Benzene	ND	ND	ND	ND	ND	ND	0.6
Toluene	ND	0.188	0.388	0.226	0.328	0.396	80
Ethyl Benzene	ND	ND	ND	ND	ND	ND	300
Total Xylene	ND	ND	ND	ND	ND	ND	11.8
Naphthalene	ND	ND	0.315	0.304	ND	ND	14.25
Bromoform	0.269	0.207	ND	0.238	0.258	ND	Not listed
1,2 Dichloroethane	ND	ND	ND	ND	0.085	ND	11.01

TEL = Threshold Effects Exposure Limit (24-Hour Average)

ug/m3 = micrograms per cubic meter

Monitoring Sites

Stodder's Neck - MWRA Pump Station (Hingham)

Quincy-Germantown 1-Clement O'Brien Tower (Quincy) - Primary

Quincy-Germantown 2-Clement O'Brien Tower (Quincy) - Collocated

BELD - Braintree Electric (Braintree)

Embridge - Embridge Property site of proposed compressor (Weymouth)

FREC - Fore River Energy Center (Weymouth)