May 18, 2020

55 Walkers Brook Drive, Suite 100, Reading, MA 01867
Tel: 978.532.1900

Linda Hansen
Conservation Administrator
Town of Wayland
41 Cochituate Road
Wayland, MA 01778

Re: Order of Conditions and Chapter 194 Permit for 264 Old Connecticut Path, Wayland MA
February 2020 Water Quality Results
DEP File #: 322-928

Dear Ms. Hansen:

Pursuant of the Town of Wayland's request, Weston & Sampson Engineers, Inc. (Weston & Sampson) is pleased to provide a summary of water quality results from the monthly sampling round performed in February at the Wayland High School Athletic Facilities in Wayland, Massachusetts. As discussed in our initial baseline sampling report, the sampling and subsequent reporting was developed to comply with the Order of Conditions (OOC) letter issued by the Wayland Conservation Commission on November 16, 2018. Per the Order of Conditions, Weston & Sampson was instructed to sample from existing monitoring well locations (MW-1 and MW-5), all available cleanout locations (Cleanout 1, Cleanout 2, Cleanout 3 and Cleanout 4) and the overflow discharge pipe (Figure 1) for the following compounds: total benzene, arsenic, styrene, cadmium, chromium, copper, lead, silica, zinc, hardness and Semi Volatile Organic Compounds (SVOCs), including the phthalates BBP, DBP, and DEHP. After extensive research, it was discovered that DIBP, one of the requested phthalates is not being tested for in commercial laboratories due to the discontinuation of EPA's Integrated Risk Information System (IRIS). As a result, no toxicity value is available, and the compound was not sampled for in this study.

At the request of the town, Weston & Sampson mobilized to Wayland High School on February 28th, 2020 to collect water quality results for the month of December. The sampling protocol was conducted using the following methodology. In an effort to obtain a representative sample, three (3) well volumes were purged using a Waterra hydralift pump and high density polyethene (HDPE) tubing to remove stagnant water from the well immediately prior to sampling in accordance with EPA standards. Groundwater was then sampled using the Waterra hydralift pump from the HDPE tubing. The samples collected for the February 2020 round of sampling include:

- Monitoring wells MW-1 and MW-5
- The overflow discharge pipe. Samples from the discharge pipe were collected directly with the standard sampling container(s) from the overflow of the discharge pipe.
- Cleanout locations (Cleanout 1, Cleanout 2 and Cleanout 4). Samples from the cleanout locations were taken using a Masterflex peristaltic pump and low density polyethene (LDPE) tubing. Samples were collected directly from the LDPE tubing.

No samples were collected from the cleanout location 3 due to an insufficient amount of water.

The samples were collected by a qualified Weston & Sampson technician and analyzed by a Massachusetts and EPA certified laboratory, Alpha Analytical (Alpha). All sample results collected are summarized in Table 1 (Attachment A) and compared to the National Ambient Water Quality Criteria of MCP Method 1 GW-3. The laboratory report can be found in Attachment B.

The compounds detected at MW-1 were Arsenic (0.00195 mg/l), Chromium (0.0025 mg/l), Copper (0.00646 mg/l), Lead (0.00196 mg/l), Silica (12.5 mg/l), and Hardness (82.1 mg/l). Benzene, Styrene, Cadmium, Zinc and all SVOC's were not detected. All detections are below Method 1- GW-3 Standards.

The compounds detected at MW-5 were Arsenic (0.00404 mg/l), Chromium (0.00374 mg/l), Copper (0.00978 mg/l), Lead (0.00479 mg/l), Silica (50 mg/l), Zinc (0.01518 mg/l) and Hardness (276 mg/l). Benzene, Styrene, Cadmium and all SVOC's were not detected. All detections are below Method 1- GW-3 Standards.

The compounds detected from the discharge pipe were Silica (5.29 mg/l) and Hardness (104 mg/l). Benzene, Arsenic, Styrene, Cadmium, Chromium, Copper, Lead, Zinc and all SVOC's were not detected. All detections are below Method 1- GW-3 Standards.

The compounds detected at Cleanout Location 1 were Arsenic (0.00135 mg/l), Copper (0.00122 mg/l), Silica (2.6 mg/l), Zinc (0.01807mg/l) and Hardness (31.4 mg/l). Benzene, Styrene, Cadmium, Chromium, Lead and all SVOC's were not detected. All detections are below Method 1- GW-3 Standards.

The compounds detected at Cleanout Location 2 were Arsenic (0.00085 mg/l), Styrene (3.2 mg/l), Silica (1.76 mg/l), Hardness (21.3 mg/l) and Aniline (2.2 mg/l). Benzene, Cadmium, Chromium, Copper, Lead, Zinc and all SVOC's, with the exception of Aniline, were not detected. Currently, Aniline has no state or federal standard. All other detections are below Method 1- GW-3 Standards.

The compounds detected at Cleanout Location 4 were Arsenic (0.00171 mg/l), Copper (0.00224 mg/l), Silica (3.68 mg/l), Zinc (0.01728 mg/l) and Hardness (31.4 mg/l). Benzene, Styrene, Cadmium, Chromium, Lead and all SVOC's were not detected. All detections are below Method 1- GW-3 Standards.

Please feel free to call the undersigned if you have any questions.

Sincerely,

WESTON & SAMPSON ENGINEERS, INC.

Kevin MacKinnon, P.G., C.G., PH-GW
Senior Technical Leader, Hydrogeology

Attachments/Enclosures

- Figures
- Attachment A – Table 1: Water Quality Results
- Attachment B – Laboratory Report of December Quality Results

cc: Ben Keefe, Town of Wayland Facilities Director
Brandon Kunkel, Weston & Sampson

Figures

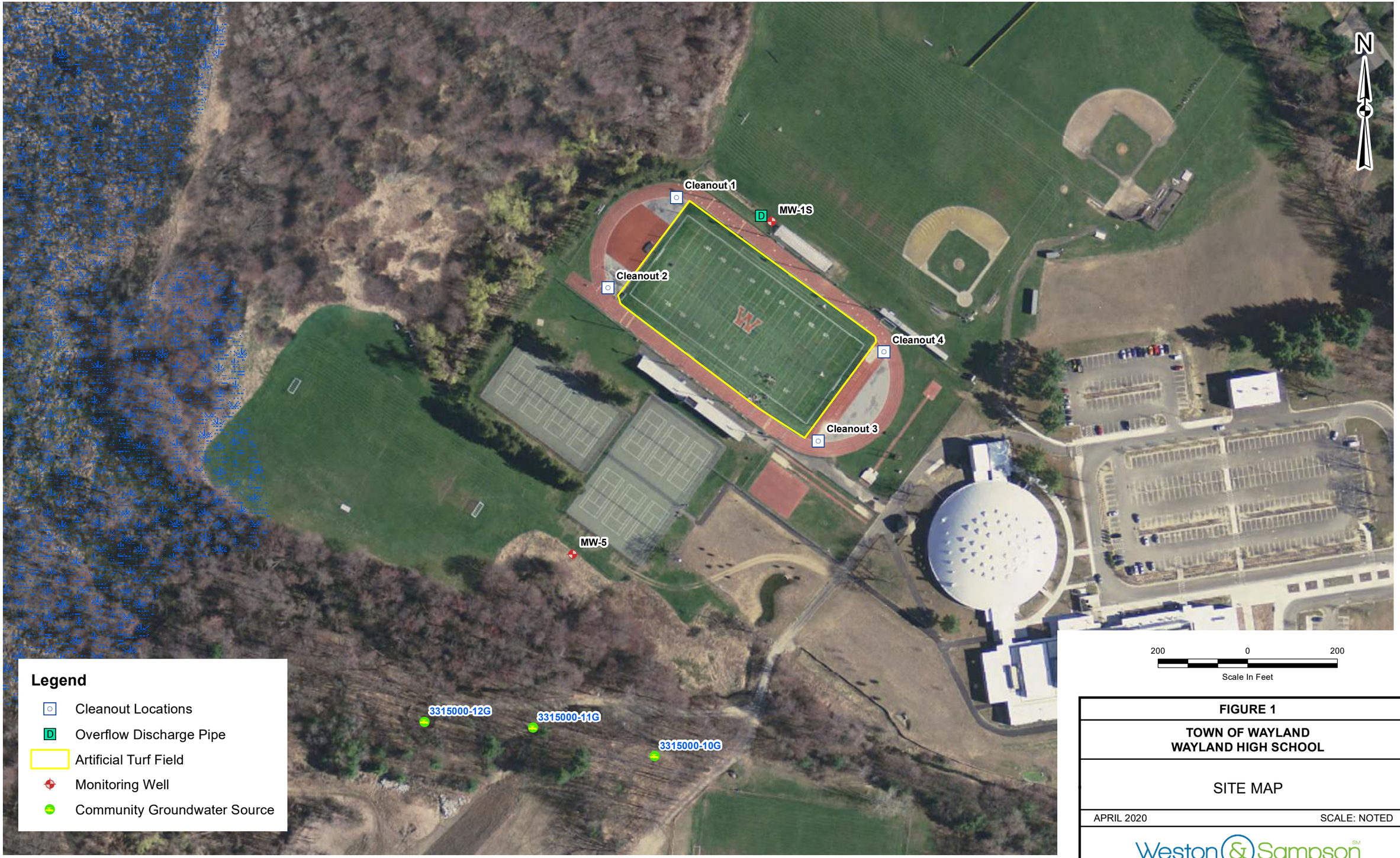

FIGURE 1

TOWN OF WAYLAND
WAYLAND HIGH SCHOOL

SITE MAP

APRIL 2020 SCALE: NOTED

Weston & Sampson SM

Path: P:\MA\Wayland MA\Wayland High School\Athletic Facilities\Hydrogeo\GIS\Mapfiles\Site Map.mxd User: GetchellJ Saved: 4/15/2020 11:44:13 AM Opened: 4/17/2020 3:07:53 PM

Attachment A

Table 1

Well I.D.	Date Collected	Metals								Volatile Organic Compounds		Semi-Volatile Organic Compounds																
		Total Arsenic	Total Cadmium	Total Chromiuim	Total Copper	Total Lead	Total Silica	Total Zinc	Hardness	Benzene	Styrene	Acenaphthene	Benzidine	1,2,4-Trichlorobenzene	Hexachlorobenzene	Bis(2-chloroethyl)ether	2-Chloronaphthalene	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Azobenzene	Fluoranthene	4-Chlorophenyl phenyl ether	4-Bromophenyl phenyl ether	Bis(2-chloroisopropyl)ether	Bis(2-chloroethoxy)methane
Method 1- GW-3 Standards (310 CMR 40.0974(2): Table 1	**mg/l**	0.9	0.004	0.3	Not Listed	0.01	Not Listed	0.9	Not Listed	10	6	10	Not Listed	50	6	50	Not Listed	2	50	8	2	50	Not Listed	Not Listed	0.2	Not Listed	Not Listed	50	Not Listed
Massachusetts Maximum Contaminant Level (MMCLs)/Secondary Contaminant Level (SMCLs)[1]	**mg/l**	0.01	0.01	0.1	1.3	0.015	Not Listed	5	Not Listed	0.01	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
MW-1	09/26/19	0.047	ND	0.083	0.12	**0.04**	114	0.13	155	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/30/19	0.02304	0.00022	0.02742	0.06543	**0.01972**	48.2	0.04325	127	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/28/20	0.00195	ND	0.0025	0.00646	0.00196	12.5	ND	82.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-5	09/26/19	0.051	ND	0.048	0.16	**0.056**	98.4	0.15	301	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/30/19	0.009	ND	0.01103	0.02287	0.00753	33.6	0.028	250	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/28/20	0.00404	ND	0.00374	0.00978	0.00479	50	0.01518	276	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Discharge Pipe	09/26/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	12/30/19	0.00298	ND	0.043	0.00856	**0.01175**	7.8	0.2596	72.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/28/20	ND	ND	ND	ND	ND	5.29	ND	104	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cleanout 1	09/26/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	12/30/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	02/28/20	0.00135	ND	ND	0.00122	ND	2.6	0.01807	31.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cleanout 2	09/26/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	12/30/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	02/28/20	0.00085	ND	ND	ND	ND	1.76	ND	21.3	ND	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cleanout 3	09/26/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	12/30/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	02/28/20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cleanout 4	09/26/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	12/30/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	02/28/20	0.00171	ND	ND	0.00224	ND	3.68	0.01728	35.6	ND	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

1. Drinking Water Standards
2. All results recorded in mg/l
3. NS- Not Sampled
4. ND- Not Detected
5. *- Insufficient amount of water for sample

Table 1

Well I.D.	Date Collected	Semi-Volatile Organic Compounds																												
		Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Isophorone	Naphthalene	Nitrobenzene	NDPA/DPA	n-Nitrosodi-n-propylamine	Bis(2-ethylhexyl)phthalate	Butyl benzyl phthalate	Di-n-butylphthalate	Di-n-octylphthalate	Diethyl phthalate	Dimethyl phthalate	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Acenaphthylene	Anthracene	Benzo(ghi)perylene	Fluorene	Phenanthrene	Dibenzo(a,h)anthracene	Indeno(1,2,3-cd)pyrene	Pyrene	Biphenyl	Aniline	4-Chloroaniline
Method 1- GW-3 Standards (310 CMR 40.0974(2): Table 1	**mg/l**	3	Not Listed	50	Not Listed	20	Not Listed	Not Listed	Not Listed	50	Not Listed	Not Listed	Not Listed	9	50	1	0.5	0.4	0.1	0.07	0.04	0.03	0.02	0.04	10	0.04	0.1	0.02	Not Listed	Not Listed	0.3
Massachusetts Maximum Contaminant Level (MMCLs)/Secondary Contaminant Level (SMCLs)[1]	**mg/l**	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
MW-1	09/26/19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/30/19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/28/20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-5	09/26/19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/30/19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/28/20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Discharge Pipe	09/26/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	12/30/19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/28/20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cleanout 1	09/26/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	12/30/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	02/28/20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cleanout 2	09/26/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	12/30/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	02/28/20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2	ND
Cleanout 3	09/26/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	12/30/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	02/28/20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cleanout 4	09/26/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	12/30/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	02/28/20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

1. Drinking Water Standards
2. All results recorded in mg/l
3. NS- Not Sampled
4. ND- Not Detected
5. *- Insufficient amount of water for sample

Table 1

Well I.D.	Date Collected	Semi-Volatile Organic Compounds																							
		1-Methylnaphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Dibenzofuran	2-Methylnaphthalene	n-Nitrosodimethylamine	2,4,6-Trichlorophenol	p-Chloro-m-cresol	2-Chlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2-Nitrophenol	4-Nitrophenol	2,4-Dinitrophenol	4,6-Dinitro-o-cresol	Pentachlorophenol	Phenol	2-Methylphenol	3-Methylphenol/4-Methylphen	2,4,5-Trichlorophenol	Benzoic Acid	Benzyl Alcohol	Carbazole	Pyridine
Method 1- GW-3 Standards (310 CMR 40.0974(2): Table 1	**mg/l**	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	20	Not Listed	0.5	Not Listed	7	2	50	Not Listed	Not Listed	20	Not Listed	0.2	2	Not Listed	Not Listed	3	Not Listed	Not Listed	Not Listed	Not Listed
Massachusetts Maximum Contaminant Level (MMCLs)/Secondary Contaminant Level (SMCLs)[1]	**mg/l**	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
MW-1	09/26/19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/30/19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/28/20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-5	09/26/19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/30/19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/28/20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Discharge Pipe	09/26/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	12/30/19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/28/20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cleanout 1	09/26/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	12/30/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	02/28/20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cleanout 2	09/26/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	12/30/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	02/28/20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cleanout 3	09/26/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	12/30/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	02/28/20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cleanout 4	09/26/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	12/30/19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	02/28/20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

1. Drinking Water Standards
2. All results recorded in mg/l
3. NS- Not Sampled
4. ND- Not Detected
5. *- Insufficient amount of water for sample

Attachment B

ANALYTICAL REPORT

Lab Number:	L2008992
Client:	Weston & Sampson 55 Walkers Brook Drive Suite 100 Reading, MA 01867
ATTN:	Kevin MacKinnon
Phone:	(978) 532-1900
Project Name:	WAYLAND HIGH SCHOOL
Project Number:	2180076
Report Date:	03/06/20

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: WAYLAND HIGH SCHOOL
Project Number: 2180076

Lab Number: L2008992
Report Date: 03/06/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2008992-01	MW-1	WATER	WAYLAND, MA	02/28/20 10:30	02/28/20
L2008992-02	MW-5	WATER	WAYLAND, MA	02/28/20 09:50	02/28/20
L2008992-03	DISCHARGE PIPE	WATER	WAYLAND, MA	02/28/20 10:40	02/28/20
L2008992-04	CLEANOUT 1	WATER	WAYLAND, MA	02/28/20 11:20	02/28/20
L2008992-05	CLEANOUT 2	WATER	WAYLAND, MA	02/28/20 11:45	02/28/20
L2008992-06	CLEANOUT 4	WATER	WAYLAND, MA	02/28/20 12:00	02/28/20
L2008992-07	TB-01	WATER	WAYLAND, MA	02/25/20 16:00	02/28/20

Project Name:	WAYLAND HIGH SCHOOL	**Lab Number:**	L2008992
Project Number:	2180076	**Report Date:**	03/06/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	WAYLAND HIGH SCHOOL	**Lab Number:**	L2008992
Project Number:	2180076	**Report Date:**	03/06/20

Case Narrative (continued)

Semivolatile Organics

The WG1346628-2 LCS recoveries, associated with L2008992-01 through -06, are below the acceptance criteria for benzidine (0%), benzoic acid (0%) and pyridine (7%); however, they have been identified as "difficult" analytes. The results of the associated samples are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Caitlin Walukevich

Title: Technical Director/Representative Date: 03/06/20

ORGANICS

VOLATILES

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-01
Client ID: MW-1
Sample Location: WAYLAND, MA

Date Collected: 02/28/20 10:30
Date Received: 02/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/03/20 16:29
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	--	1
Styrene	ND		ug/l	1.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	99		70-130

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-02
Client ID: MW-5
Sample Location: WAYLAND, MA

Date Collected: 02/28/20 09:50
Date Received: 02/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/03/20 16:54
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	--	1
Styrene	ND		ug/l	1.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-03 Date Collected: 02/28/20 10:40
Client ID: DISCHARGE PIPE Date Received: 02/28/20
Sample Location: WAYLAND, MA Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/03/20 17:20
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	--	1
Styrene	ND		ug/l	1.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-04
Client ID: CLEANOUT 1
Sample Location: WAYLAND, MA

Date Collected: 02/28/20 11:20
Date Received: 02/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/04/20 19:57
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	--	1
Styrene	ND		ug/l	1.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-05
Client ID: CLEANOUT 2
Sample Location: WAYLAND, MA

Date Collected: 02/28/20 11:45
Date Received: 02/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/03/20 17:46
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	--	1
Styrene	3.2		ug/l	1.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	99		70-130

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-06
Client ID: CLEANOUT 4
Sample Location: WAYLAND, MA

Date Collected: 02/28/20 12:00
Date Received: 02/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/04/20 20:23
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	--	1
Styrene	3.4		ug/l	1.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	99		70-130

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-07
Client ID: TB-01
Sample Location: WAYLAND, MA

Date Collected: 02/25/20 16:00
Date Received: 02/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 03/03/20 10:26
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Benzene	ND		ug/l	0.50	--	1
Styrene	ND		ug/l	1.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	105		70-130

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/03/20 08:59
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07 Batch: WG1346607-5					
Benzene	ND		ug/l	0.50	--
Styrene	ND		ug/l	1.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	103		70-130

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/03/20 16:03
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05 Batch: WG1347156-5					
Benzene	ND		ug/l	0.50	--
Styrene	ND		ug/l	1.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	97		70-130

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/04/20 19:32
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04,06 Batch: WG1347619-5					
Benzene	ND		ug/l	0.50	--
Styrene	ND		ug/l	1.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WAYLAND HIGH SCHOOL

Project Number: 2180076

Lab Number: L2008992

Report Date: 03/06/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07 Batch: WG1346607-3 WG1346607-4								
Benzene	100		99		70-130	1		25
Styrene	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		98		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	102		104		70-130
Dibromofluoromethane	101		99		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WAYLAND HIGH SCHOOL

Project Number: 2180076

Lab Number: L2008992

Report Date: 03/06/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05 Batch: WG1347156-3 WG1347156-4								
Benzene	100		99		70-130	1		25
Styrene	100		95		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		89		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	98		101		70-130
Dibromofluoromethane	98		95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: WAYLAND HIGH SCHOOL

Project Number: 2180076

Lab Number: L2008992

Report Date: 03/06/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04,06 Batch: WG1347619-3 WG1347619-4								
Benzene	110		100		70-130	10		25
Styrene	110		100		70-130	10		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		91		70-130
Toluene-d8	95		96		70-130
4-Bromofluorobenzene	97		101		70-130
Dibromofluoromethane	98		100		70-130

SEMIVOLATILES

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-01
Client ID: MW-1
Sample Location: WAYLAND, MA

Date Collected: 02/28/20 10:30
Date Received: 02/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/04/20 12:14
Analyst: JRW

Extraction Method: EPA 3510C
Extraction Date: 03/03/20 13:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	--	1
Benzidine	ND		ug/l	20	--	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	1
Hexachlorobenzene	ND		ug/l	2.0	--	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--	1
2-Chloronaphthalene	ND		ug/l	2.0	--	1
1,2-Dichlorobenzene	ND		ug/l	2.0	--	1
1,3-Dichlorobenzene	ND		ug/l	2.0	--	1
1,4-Dichlorobenzene	ND		ug/l	2.0	--	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--	1
2,4-Dinitrotoluene	ND		ug/l	5.0	--	1
2,6-Dinitrotoluene	ND		ug/l	5.0	--	1
Azobenzene	ND		ug/l	2.0	--	1
Fluoranthene	ND		ug/l	2.0	--	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	--	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--	1
Hexachlorobutadiene	ND		ug/l	2.0	--	1
Hexachlorocyclopentadiene	ND		ug/l	20	--	1
Hexachloroethane	ND		ug/l	2.0	--	1
Isophorone	ND		ug/l	5.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
Nitrobenzene	ND		ug/l	2.0	--	1
NDPA/DPA	ND		ug/l	2.0	--	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-01 Date Collected: 02/28/20 10:30

Client ID: MW-1 Date Received: 02/28/20

Sample Location: WAYLAND, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1
Benzo(a)anthracene	ND		ug/l	2.0	--	1
Benzo(a)pyrene	ND		ug/l	2.0	--	1
Benzo(b)fluoranthene	ND		ug/l	2.0	--	1
Benzo(k)fluoranthene	ND		ug/l	2.0	--	1
Chrysene	ND		ug/l	2.0	--	1
Acenaphthylene	ND		ug/l	2.0	--	1
Anthracene	ND		ug/l	2.0	--	1
Benzo(ghi)perylene	ND		ug/l	2.0	--	1
Fluorene	ND		ug/l	2.0	--	1
Phenanthrene	ND		ug/l	2.0	--	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	--	1
Pyrene	ND		ug/l	2.0	--	1
Biphenyl	ND		ug/l	2.0	--	1
Aniline	ND		ug/l	2.0	--	1
4-Chloroaniline	ND		ug/l	5.0	--	1
1-Methylnaphthalene	ND		ug/l	2.0	--	1
2-Nitroaniline	ND		ug/l	5.0	--	1
3-Nitroaniline	ND		ug/l	5.0	--	1
4-Nitroaniline	ND		ug/l	5.0	--	1
Dibenzofuran	ND		ug/l	2.0	--	1
2-Methylnaphthalene	ND		ug/l	2.0	--	1
n-Nitrosodimethylamine	ND		ug/l	2.0	--	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
p-Chloro-m-cresol	ND		ug/l	2.0	--	1
2-Chlorophenol	ND		ug/l	2.0	--	1
2,4-Dichlorophenol	ND		ug/l	5.0	--	1
2,4-Dimethylphenol	ND		ug/l	5.0	--	1
2-Nitrophenol	ND		ug/l	10	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	20	--	1
4,6-Dinitro-o-cresol	ND		ug/l	10	--	1
Pentachlorophenol	ND		ug/l	10	--	1

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-01 Date Collected: 02/28/20 10:30

Client ID: MW-1 Date Received: 02/28/20

Sample Location: WAYLAND, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/l	5.0	--	1
2-Methylphenol	ND		ug/l	5.0	--	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	--	1
Benzoic Acid	ND		ug/l	50	--	1
Benzyl Alcohol	ND		ug/l	2.0	--	1
Carbazole	ND		ug/l	2.0	--	1
Pyridine	ND		ug/l	3.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	62		41-149

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-02
Client ID: MW-5
Sample Location: WAYLAND, MA

Date Collected: 02/28/20 09:50
Date Received: 02/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/04/20 12:38
Analyst: JRW

Extraction Method: EPA 3510C
Extraction Date: 03/03/20 13:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	--	1
Benzidine	ND		ug/l	20	--	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	1
Hexachlorobenzene	ND		ug/l	2.0	--	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--	1
2-Chloronaphthalene	ND		ug/l	2.0	--	1
1,2-Dichlorobenzene	ND		ug/l	2.0	--	1
1,3-Dichlorobenzene	ND		ug/l	2.0	--	1
1,4-Dichlorobenzene	ND		ug/l	2.0	--	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--	1
2,4-Dinitrotoluene	ND		ug/l	5.0	--	1
2,6-Dinitrotoluene	ND		ug/l	5.0	--	1
Azobenzene	ND		ug/l	2.0	--	1
Fluoranthene	ND		ug/l	2.0	--	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	--	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--	1
Hexachlorobutadiene	ND		ug/l	2.0	--	1
Hexachlorocyclopentadiene	ND		ug/l	20	--	1
Hexachloroethane	ND		ug/l	2.0	--	1
Isophorone	ND		ug/l	5.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
Nitrobenzene	ND		ug/l	2.0	--	1
NDPA/DPA	ND		ug/l	2.0	--	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-02 Date Collected: 02/28/20 09:50
Client ID: MW-5 Date Received: 02/28/20
Sample Location: WAYLAND, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1
Benzo(a)anthracene	ND		ug/l	2.0	--	1
Benzo(a)pyrene	ND		ug/l	2.0	--	1
Benzo(b)fluoranthene	ND		ug/l	2.0	--	1
Benzo(k)fluoranthene	ND		ug/l	2.0	--	1
Chrysene	ND		ug/l	2.0	--	1
Acenaphthylene	ND		ug/l	2.0	--	1
Anthracene	ND		ug/l	2.0	--	1
Benzo(ghi)perylene	ND		ug/l	2.0	--	1
Fluorene	ND		ug/l	2.0	--	1
Phenanthrene	ND		ug/l	2.0	--	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	--	1
Pyrene	ND		ug/l	2.0	--	1
Biphenyl	ND		ug/l	2.0	--	1
Aniline	ND		ug/l	2.0	--	1
4-Chloroaniline	ND		ug/l	5.0	--	1
1-Methylnaphthalene	ND		ug/l	2.0	--	1
2-Nitroaniline	ND		ug/l	5.0	--	1
3-Nitroaniline	ND		ug/l	5.0	--	1
4-Nitroaniline	ND		ug/l	5.0	--	1
Dibenzofuran	ND		ug/l	2.0	--	1
2-Methylnaphthalene	ND		ug/l	2.0	--	1
n-Nitrosodimethylamine	ND		ug/l	2.0	--	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
p-Chloro-m-cresol	ND		ug/l	2.0	--	1
2-Chlorophenol	ND		ug/l	2.0	--	1
2,4-Dichlorophenol	ND		ug/l	5.0	--	1
2,4-Dimethylphenol	ND		ug/l	5.0	--	1
2-Nitrophenol	ND		ug/l	10	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	20	--	1
4,6-Dinitro-o-cresol	ND		ug/l	10	--	1
Pentachlorophenol	ND		ug/l	10	--	1

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-02 Date Collected: 02/28/20 09:50

Client ID: MW-5 Date Received: 02/28/20

Sample Location: WAYLAND, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/l	5.0	--	1
2-Methylphenol	ND		ug/l	5.0	--	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	--	1
Benzoic Acid	ND		ug/l	50	--	1
Benzyl Alcohol	ND		ug/l	2.0	--	1
Carbazole	ND		ug/l	2.0	--	1
Pyridine	ND		ug/l	3.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	47		15-120
2,4,6-Tribromophenol	62		10-120
4-Terphenyl-d14	53		41-149

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-03
Client ID: DISCHARGE PIPE
Sample Location: WAYLAND, MA

Date Collected: 02/28/20 10:40
Date Received: 02/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/04/20 13:02
Analyst: JRW

Extraction Method: EPA 3510C
Extraction Date: 03/03/20 13:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	--	1
Benzidine	ND		ug/l	20	--	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	1
Hexachlorobenzene	ND		ug/l	2.0	--	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--	1
2-Chloronaphthalene	ND		ug/l	2.0	--	1
1,2-Dichlorobenzene	ND		ug/l	2.0	--	1
1,3-Dichlorobenzene	ND		ug/l	2.0	--	1
1,4-Dichlorobenzene	ND		ug/l	2.0	--	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--	1
2,4-Dinitrotoluene	ND		ug/l	5.0	--	1
2,6-Dinitrotoluene	ND		ug/l	5.0	--	1
Azobenzene	ND		ug/l	2.0	--	1
Fluoranthene	ND		ug/l	2.0	--	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	--	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--	1
Hexachlorobutadiene	ND		ug/l	2.0	--	1
Hexachlorocyclopentadiene	ND		ug/l	20	--	1
Hexachloroethane	ND		ug/l	2.0	--	1
Isophorone	ND		ug/l	5.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
Nitrobenzene	ND		ug/l	2.0	--	1
NDPA/DPA	ND		ug/l	2.0	--	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-03 Date Collected: 02/28/20 10:40

Client ID: DISCHARGE PIPE Date Received: 02/28/20

Sample Location: WAYLAND, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1
Benzo(a)anthracene	ND		ug/l	2.0	--	1
Benzo(a)pyrene	ND		ug/l	2.0	--	1
Benzo(b)fluoranthene	ND		ug/l	2.0	--	1
Benzo(k)fluoranthene	ND		ug/l	2.0	--	1
Chrysene	ND		ug/l	2.0	--	1
Acenaphthylene	ND		ug/l	2.0	--	1
Anthracene	ND		ug/l	2.0	--	1
Benzo(ghi)perylene	ND		ug/l	2.0	--	1
Fluorene	ND		ug/l	2.0	--	1
Phenanthrene	ND		ug/l	2.0	--	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	--	1
Pyrene	ND		ug/l	2.0	--	1
Biphenyl	ND		ug/l	2.0	--	1
Aniline	ND		ug/l	2.0	--	1
4-Chloroaniline	ND		ug/l	5.0	--	1
1-Methylnaphthalene	ND		ug/l	2.0	--	1
2-Nitroaniline	ND		ug/l	5.0	--	1
3-Nitroaniline	ND		ug/l	5.0	--	1
4-Nitroaniline	ND		ug/l	5.0	--	1
Dibenzofuran	ND		ug/l	2.0	--	1
2-Methylnaphthalene	ND		ug/l	2.0	--	1
n-Nitrosodimethylamine	ND		ug/l	2.0	--	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
p-Chloro-m-cresol	ND		ug/l	2.0	--	1
2-Chlorophenol	ND		ug/l	2.0	--	1
2,4-Dichlorophenol	ND		ug/l	5.0	--	1
2,4-Dimethylphenol	ND		ug/l	5.0	--	1
2-Nitrophenol	ND		ug/l	10	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	20	--	1
4,6-Dinitro-o-cresol	ND		ug/l	10	--	1
Pentachlorophenol	ND		ug/l	10	--	1

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-03 Date Collected: 02/28/20 10:40

Client ID: DISCHARGE PIPE Date Received: 02/28/20

Sample Location: WAYLAND, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/l	5.0	--	1
2-Methylphenol	ND		ug/l	5.0	--	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	--	1
Benzoic Acid	ND		ug/l	50	--	1
Benzyl Alcohol	ND		ug/l	2.0	--	1
Carbazole	ND		ug/l	2.0	--	1
Pyridine	ND		ug/l	3.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	97		10-120
4-Terphenyl-d14	72		41-149

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-04
Client ID: CLEANOUT 1
Sample Location: WAYLAND, MA

Date Collected: 02/28/20 11:20
Date Received: 02/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/04/20 13:27
Analyst: JRW

Extraction Method: EPA 3510C
Extraction Date: 03/03/20 13:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	--	1
Benzidine	ND		ug/l	20	--	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	1
Hexachlorobenzene	ND		ug/l	2.0	--	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--	1
2-Chloronaphthalene	ND		ug/l	2.0	--	1
1,2-Dichlorobenzene	ND		ug/l	2.0	--	1
1,3-Dichlorobenzene	ND		ug/l	2.0	--	1
1,4-Dichlorobenzene	ND		ug/l	2.0	--	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--	1
2,4-Dinitrotoluene	ND		ug/l	5.0	--	1
2,6-Dinitrotoluene	ND		ug/l	5.0	--	1
Azobenzene	ND		ug/l	2.0	--	1
Fluoranthene	ND		ug/l	2.0	--	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	--	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--	1
Hexachlorobutadiene	ND		ug/l	2.0	--	1
Hexachlorocyclopentadiene	ND		ug/l	20	--	1
Hexachloroethane	ND		ug/l	2.0	--	1
Isophorone	ND		ug/l	5.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
Nitrobenzene	ND		ug/l	2.0	--	1
NDPA/DPA	ND		ug/l	2.0	--	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-04 Date Collected: 02/28/20 11:20

Client ID: CLEANOUT 1 Date Received: 02/28/20

Sample Location: WAYLAND, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1
Benzo(a)anthracene	ND		ug/l	2.0	--	1
Benzo(a)pyrene	ND		ug/l	2.0	--	1
Benzo(b)fluoranthene	ND		ug/l	2.0	--	1
Benzo(k)fluoranthene	ND		ug/l	2.0	--	1
Chrysene	ND		ug/l	2.0	--	1
Acenaphthylene	ND		ug/l	2.0	--	1
Anthracene	ND		ug/l	2.0	--	1
Benzo(ghi)perylene	ND		ug/l	2.0	--	1
Fluorene	ND		ug/l	2.0	--	1
Phenanthrene	ND		ug/l	2.0	--	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	--	1
Pyrene	ND		ug/l	2.0	--	1
Biphenyl	ND		ug/l	2.0	--	1
Aniline	ND		ug/l	2.0	--	1
4-Chloroaniline	ND		ug/l	5.0	--	1
1-Methylnaphthalene	ND		ug/l	2.0	--	1
2-Nitroaniline	ND		ug/l	5.0	--	1
3-Nitroaniline	ND		ug/l	5.0	--	1
4-Nitroaniline	ND		ug/l	5.0	--	1
Dibenzofuran	ND		ug/l	2.0	--	1
2-Methylnaphthalene	ND		ug/l	2.0	--	1
n-Nitrosodimethylamine	ND		ug/l	2.0	--	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
p-Chloro-m-cresol	ND		ug/l	2.0	--	1
2-Chlorophenol	ND		ug/l	2.0	--	1
2,4-Dichlorophenol	ND		ug/l	5.0	--	1
2,4-Dimethylphenol	ND		ug/l	5.0	--	1
2-Nitrophenol	ND		ug/l	10	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	20	--	1
4,6-Dinitro-o-cresol	ND		ug/l	10	--	1
Pentachlorophenol	ND		ug/l	10	--	1

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-04 Date Collected: 02/28/20 11:20

Client ID: CLEANOUT 1 Date Received: 02/28/20

Sample Location: WAYLAND, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/l	5.0	--	1
2-Methylphenol	ND		ug/l	5.0	--	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	--	1
Benzoic Acid	ND		ug/l	50	--	1
Benzyl Alcohol	ND		ug/l	2.0	--	1
Carbazole	ND		ug/l	2.0	--	1
Pyridine	ND		ug/l	3.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	49		23-120
2-Fluorobiphenyl	48		15-120
2,4,6-Tribromophenol	69		10-120
4-Terphenyl-d14	53		41-149

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-05
Client ID: CLEANOUT 2
Sample Location: WAYLAND, MA

Date Collected: 02/28/20 11:45
Date Received: 02/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/04/20 13:51
Analyst: JRW

Extraction Method: EPA 3510C
Extraction Date: 03/03/20 13:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	--	1
Benzidine	ND		ug/l	20	--	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	1
Hexachlorobenzene	ND		ug/l	2.0	--	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--	1
2-Chloronaphthalene	ND		ug/l	2.0	--	1
1,2-Dichlorobenzene	ND		ug/l	2.0	--	1
1,3-Dichlorobenzene	ND		ug/l	2.0	--	1
1,4-Dichlorobenzene	ND		ug/l	2.0	--	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--	1
2,4-Dinitrotoluene	ND		ug/l	5.0	--	1
2,6-Dinitrotoluene	ND		ug/l	5.0	--	1
Azobenzene	ND		ug/l	2.0	--	1
Fluoranthene	ND		ug/l	2.0	--	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	--	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--	1
Hexachlorobutadiene	ND		ug/l	2.0	--	1
Hexachlorocyclopentadiene	ND		ug/l	20	--	1
Hexachloroethane	ND		ug/l	2.0	--	1
Isophorone	ND		ug/l	5.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
Nitrobenzene	ND		ug/l	2.0	--	1
NDPA/DPA	ND		ug/l	2.0	--	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-05 Date Collected: 02/28/20 11:45

Client ID: CLEANOUT 2 Date Received: 02/28/20

Sample Location: WAYLAND, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1
Benzo(a)anthracene	ND		ug/l	2.0	--	1
Benzo(a)pyrene	ND		ug/l	2.0	--	1
Benzo(b)fluoranthene	ND		ug/l	2.0	--	1
Benzo(k)fluoranthene	ND		ug/l	2.0	--	1
Chrysene	ND		ug/l	2.0	--	1
Acenaphthylene	ND		ug/l	2.0	--	1
Anthracene	ND		ug/l	2.0	--	1
Benzo(ghi)perylene	ND		ug/l	2.0	--	1
Fluorene	ND		ug/l	2.0	--	1
Phenanthrene	ND		ug/l	2.0	--	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	--	1
Pyrene	ND		ug/l	2.0	--	1
Biphenyl	ND		ug/l	2.0	--	1
Aniline	2.2		ug/l	2.0	--	1
4-Chloroaniline	ND		ug/l	5.0	--	1
1-Methylnaphthalene	ND		ug/l	2.0	--	1
2-Nitroaniline	ND		ug/l	5.0	--	1
3-Nitroaniline	ND		ug/l	5.0	--	1
4-Nitroaniline	ND		ug/l	5.0	--	1
Dibenzofuran	ND		ug/l	2.0	--	1
2-Methylnaphthalene	ND		ug/l	2.0	--	1
n-Nitrosodimethylamine	ND		ug/l	2.0	--	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
p-Chloro-m-cresol	ND		ug/l	2.0	--	1
2-Chlorophenol	ND		ug/l	2.0	--	1
2,4-Dichlorophenol	ND		ug/l	5.0	--	1
2,4-Dimethylphenol	ND		ug/l	5.0	--	1
2-Nitrophenol	ND		ug/l	10	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	20	--	1
4,6-Dinitro-o-cresol	ND		ug/l	10	--	1
Pentachlorophenol	ND		ug/l	10	--	1

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-05 Date Collected: 02/28/20 11:45

Client ID: CLEANOUT 2 Date Received: 02/28/20

Sample Location: WAYLAND, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/l	5.0	--	1
2-Methylphenol	ND		ug/l	5.0	--	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	--	1
Benzoic Acid	ND		ug/l	50	--	1
Benzyl Alcohol	ND		ug/l	2.0	--	1
Carbazole	ND		ug/l	2.0	--	1
Pyridine	ND		ug/l	3.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	54		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	59		41-149

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-06
Client ID: CLEANOUT 4
Sample Location: WAYLAND, MA

Date Collected: 02/28/20 12:00
Date Received: 02/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 03/04/20 14:15
Analyst: JRW

Extraction Method: EPA 3510C
Extraction Date: 03/03/20 13:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	--	1
Benzidine	ND		ug/l	20	--	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	1
Hexachlorobenzene	ND		ug/l	2.0	--	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--	1
2-Chloronaphthalene	ND		ug/l	2.0	--	1
1,2-Dichlorobenzene	ND		ug/l	2.0	--	1
1,3-Dichlorobenzene	ND		ug/l	2.0	--	1
1,4-Dichlorobenzene	ND		ug/l	2.0	--	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--	1
2,4-Dinitrotoluene	ND		ug/l	5.0	--	1
2,6-Dinitrotoluene	ND		ug/l	5.0	--	1
Azobenzene	ND		ug/l	2.0	--	1
Fluoranthene	ND		ug/l	2.0	--	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	--	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--	1
Hexachlorobutadiene	ND		ug/l	2.0	--	1
Hexachlorocyclopentadiene	ND		ug/l	20	--	1
Hexachloroethane	ND		ug/l	2.0	--	1
Isophorone	ND		ug/l	5.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
Nitrobenzene	ND		ug/l	2.0	--	1
NDPA/DPA	ND		ug/l	2.0	--	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	--	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	--	1
Butyl benzyl phthalate	ND		ug/l	5.0	--	1

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-06 Date Collected: 02/28/20 12:00
Client ID: CLEANOUT 4 Date Received: 02/28/20
Sample Location: WAYLAND, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/l	5.0	--	1
Di-n-octylphthalate	ND		ug/l	5.0	--	1
Diethyl phthalate	ND		ug/l	5.0	--	1
Dimethyl phthalate	ND		ug/l	5.0	--	1
Benzo(a)anthracene	ND		ug/l	2.0	--	1
Benzo(a)pyrene	ND		ug/l	2.0	--	1
Benzo(b)fluoranthene	ND		ug/l	2.0	--	1
Benzo(k)fluoranthene	ND		ug/l	2.0	--	1
Chrysene	ND		ug/l	2.0	--	1
Acenaphthylene	ND		ug/l	2.0	--	1
Anthracene	ND		ug/l	2.0	--	1
Benzo(ghi)perylene	ND		ug/l	2.0	--	1
Fluorene	ND		ug/l	2.0	--	1
Phenanthrene	ND		ug/l	2.0	--	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	--	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	--	1
Pyrene	ND		ug/l	2.0	--	1
Biphenyl	ND		ug/l	2.0	--	1
Aniline	ND		ug/l	2.0	--	1
4-Chloroaniline	ND		ug/l	5.0	--	1
1-Methylnaphthalene	ND		ug/l	2.0	--	1
2-Nitroaniline	ND		ug/l	5.0	--	1
3-Nitroaniline	ND		ug/l	5.0	--	1
4-Nitroaniline	ND		ug/l	5.0	--	1
Dibenzofuran	ND		ug/l	2.0	--	1
2-Methylnaphthalene	ND		ug/l	2.0	--	1
n-Nitrosodimethylamine	ND		ug/l	2.0	--	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	--	1
p-Chloro-m-cresol	ND		ug/l	2.0	--	1
2-Chlorophenol	ND		ug/l	2.0	--	1
2,4-Dichlorophenol	ND		ug/l	5.0	--	1
2,4-Dimethylphenol	ND		ug/l	5.0	--	1
2-Nitrophenol	ND		ug/l	10	--	1
4-Nitrophenol	ND		ug/l	10	--	1
2,4-Dinitrophenol	ND		ug/l	20	--	1
4,6-Dinitro-o-cresol	ND		ug/l	10	--	1
Pentachlorophenol	ND		ug/l	10	--	1

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-06 Date Collected: 02/28/20 12:00

Client ID: CLEANOUT 4 Date Received: 02/28/20

Sample Location: WAYLAND, MA Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/l	5.0	--	1
2-Methylphenol	ND		ug/l	5.0	--	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	--	1
Benzoic Acid	ND		ug/l	50	--	1
Benzyl Alcohol	ND		ug/l	2.0	--	1
Carbazole	ND		ug/l	2.0	--	1
Pyridine	ND		ug/l	3.5	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		21-120
Phenol-d6	67		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	70		15-120
2,4,6-Tribromophenol	102		10-120
4-Terphenyl-d14	82		41-149

Project Name: WAYLAND HIGH SCHOOL
Project Number: 2180076
Lab Number: L2008992
Report Date: 03/06/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/04/20 10:13
Analyst: JRW

Extraction Method: EPA 3510C
Extraction Date: 03/03/20 13:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1346628-1					
Acenaphthene	ND		ug/l	2.0	--
Benzidine	ND		ug/l	20	--
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--
Hexachlorobenzene	ND		ug/l	2.0	--
Bis(2-chloroethyl)ether	ND		ug/l	2.0	--
2-Chloronaphthalene	ND		ug/l	2.0	--
1,2-Dichlorobenzene	ND		ug/l	2.0	--
1,3-Dichlorobenzene	ND		ug/l	2.0	--
1,4-Dichlorobenzene	ND		ug/l	2.0	--
3,3'-Dichlorobenzidine	ND		ug/l	5.0	--
2,4-Dinitrotoluene	ND		ug/l	5.0	--
2,6-Dinitrotoluene	ND		ug/l	5.0	--
Azobenzene	ND		ug/l	2.0	--
Fluoranthene	ND		ug/l	2.0	--
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	--
4-Bromophenyl phenyl ether	ND		ug/l	2.0	--
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	--
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	--
Hexachlorobutadiene	ND		ug/l	2.0	--
Hexachlorocyclopentadiene	ND		ug/l	20	--
Hexachloroethane	ND		ug/l	2.0	--
Isophorone	ND		ug/l	5.0	--
Naphthalene	ND		ug/l	2.0	--
Nitrobenzene	ND		ug/l	2.0	--
NDPA/DPA	ND		ug/l	2.0	--
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	--
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	--
Butyl benzyl phthalate	ND		ug/l	5.0	--
Di-n-butylphthalate	ND		ug/l	5.0	--

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/04/20 10:13
Analyst: JRW

Extraction Method: EPA 3510C
Extraction Date: 03/03/20 13:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1346628-1					
Di-n-octylphthalate	ND		ug/l	5.0	--
Diethyl phthalate	ND		ug/l	5.0	--
Dimethyl phthalate	ND		ug/l	5.0	--
Benzo(a)anthracene	ND		ug/l	2.0	--
Benzo(a)pyrene	ND		ug/l	2.0	--
Benzo(b)fluoranthene	ND		ug/l	2.0	--
Benzo(k)fluoranthene	ND		ug/l	2.0	--
Chrysene	ND		ug/l	2.0	--
Acenaphthylene	ND		ug/l	2.0	--
Anthracene	ND		ug/l	2.0	--
Benzo(ghi)perylene	ND		ug/l	2.0	--
Fluorene	ND		ug/l	2.0	--
Phenanthrene	ND		ug/l	2.0	--
Dibenzo(a,h)anthracene	ND		ug/l	2.0	--
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	--
Pyrene	ND		ug/l	2.0	--
Biphenyl	ND		ug/l	2.0	--
Aniline	ND		ug/l	2.0	--
4-Chloroaniline	ND		ug/l	5.0	--
1-Methylnaphthalene	ND		ug/l	2.0	--
2-Nitroaniline	ND		ug/l	5.0	--
3-Nitroaniline	ND		ug/l	5.0	--
4-Nitroaniline	ND		ug/l	5.0	--
Dibenzofuran	ND		ug/l	2.0	--
2-Methylnaphthalene	ND		ug/l	2.0	--
n-Nitrosodimethylamine	ND		ug/l	2.0	--
2,4,6-Trichlorophenol	ND		ug/l	5.0	--
p-Chloro-m-cresol	ND		ug/l	2.0	--
2-Chlorophenol	ND		ug/l	2.0	--

Project Name: WAYLAND HIGH SCHOOL
Project Number: 2180076
Lab Number: L2008992
Report Date: 03/06/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 03/04/20 10:13
Analyst: JRW

Extraction Method: EPA 3510C
Extraction Date: 03/03/20 13:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1346628-1					
2,4-Dichlorophenol	ND		ug/l	5.0	--
2,4-Dimethylphenol	ND		ug/l	5.0	--
2-Nitrophenol	ND		ug/l	10	--
4-Nitrophenol	ND		ug/l	10	--
2,4-Dinitrophenol	ND		ug/l	20	--
4,6-Dinitro-o-cresol	ND		ug/l	10	--
Pentachlorophenol	ND		ug/l	10	--
Phenol	ND		ug/l	5.0	--
2-Methylphenol	ND		ug/l	5.0	--
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	--
2,4,5-Trichlorophenol	ND		ug/l	5.0	--
Benzoic Acid	ND		ug/l	50	--
Benzyl Alcohol	ND		ug/l	2.0	--
Carbazole	ND		ug/l	2.0	--
Pyridine	ND		ug/l	3.5	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	54		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	63		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: WAYLAND HIGH SCHOOL

Project Number: 2180076

Lab Number: L2008992

Report Date: 03/06/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1346628-2 WG1346628-3								
Acenaphthene	54		44		37-111	20		30
Benzidine	**0**	Q	10		10-75	NC		30
1,2,4-Trichlorobenzene	54		50		39-98	8		30
Hexachlorobenzene	61		52		40-140	16		30
Bis(2-chloroethyl)ether	52		48		40-140	8		30
2-Chloronaphthalene	57		51		40-140	11		30
1,2-Dichlorobenzene	52		47		40-140	10		30
1,3-Dichlorobenzene	52		46		40-140	12		30
1,4-Dichlorobenzene	52		46		36-97	12		30
3,3'-Dichlorobenzidine	43		**36**	Q	40-140	18		30
2,4-Dinitrotoluene	64		54		48-143	17		30
2,6-Dinitrotoluene	68		56		40-140	19		30
Azobenzene	57		47		40-140	19		30
Fluoranthene	60		49		40-140	20		30
4-Chlorophenyl phenyl ether	60		50		40-140	18		30
4-Bromophenyl phenyl ether	66		57		40-140	15		30
Bis(2-chloroisopropyl)ether	**35**	Q	**32**	Q	40-140	9		30
Bis(2-chloroethoxy)methane	58		52		40-140	11		30
Hexachlorobutadiene	54		48		40-140	12		30
Hexachlorocyclopentadiene	53		44		40-140	19		30
Hexachloroethane	49		46		40-140	6		30
Isophorone	59		54		40-140	9		30
Naphthalene	52		47		40-140	10		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WAYLAND HIGH SCHOOL
Project Number: 2180076
Lab Number: L2008992
Report Date: 03/06/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1346628-2 WG1346628-3								
Nitrobenzene	55		50		40-140	10		30
NDPA/DPA	61		50		40-140	20		30
n-Nitrosodi-n-propylamine	62		58		29-132	7		30
Bis(2-ethylhexyl)phthalate	55		44		40-140	22		30
Butyl benzyl phthalate	63		52		40-140	19		30
Di-n-butylphthalate	59		47		40-140	23		30
Di-n-octylphthalate	63		55		40-140	14		30
Diethyl phthalate	60		49		40-140	20		30
Dimethyl phthalate	65		55		40-140	17		30
Benzo(a)anthracene	54		44		40-140	20		30
Benzo(a)pyrene	51		41		40-140	22		30
Benzo(b)fluoranthene	51		43		40-140	17		30
Benzo(k)fluoranthene	55		43		40-140	24		30
Chrysene	49		41		40-140	18		30
Acenaphthylene	58		50		45-123	15		30
Anthracene	59		48		40-140	21		30
Benzo(ghi)perylene	53		44		40-140	19		30
Fluorene	59		48		40-140	21		30
Phenanthrene	57		48		40-140	17		30
Dibenzo(a,h)anthracene	56		45		40-140	22		30
Indeno(1,2,3-cd)pyrene	60		47		40-140	24		30
Pyrene	58		47		26-127	21		30
Biphenyl	61		53		40-140	14		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: WAYLAND HIGH SCHOOL
Project Number: 2180076
Lab Number: L2008992
Report Date: 03/06/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1346628-2 WG1346628-3								
Aniline	**19**	Q	**19**	Q	40-140	0		30
4-Chloroaniline	48		48		40-140	0		30
1-Methylnaphthalene	55		50		41-103	10		30
2-Nitroaniline	64		55		52-143	15		30
3-Nitroaniline	51		43		25-145	17		30
4-Nitroaniline	56		**46**	Q	51-143	20		30
Dibenzofuran	56		47		40-140	17		30
2-Methylnaphthalene	55		50		40-140	10		30
n-Nitrosodimethylamine	44		41		22-74	7		30
2,4,6-Trichlorophenol	63		54		30-130	15		30
p-Chloro-m-cresol	67		56		23-97	18		30
2-Chlorophenol	55		49		27-123	12		30
2,4-Dichlorophenol	65		56		30-130	15		30
2,4-Dimethylphenol	45		36		30-130	22		30
2-Nitrophenol	55		50		30-130	10		30
4-Nitrophenol	59		48		10-80	21		30
2,4-Dinitrophenol	64		59		20-130	8		30
4,6-Dinitro-o-cresol	69		57		20-164	19		30
Pentachlorophenol	68		59		9-103	14		30
Phenol	43		42		12-110	2		30
2-Methylphenol	55		48		30-130	14		30
3-Methylphenol/4-Methylphenol	62		54		30-130	14		30
2,4,5-Trichlorophenol	63		53		30-130	17		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: WAYLAND HIGH SCHOOL

Project Number: 2180076

Lab Number: L2008992

Report Date: 03/06/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1346628-2 WG1346628-3								
Benzoic Acid	**0**	Q	53		10-164	NC		30
Benzyl Alcohol	56		52		26-116	7		30
Carbazole	58		**47**	Q	55-144	21		30
Pyridine	**7**	Q	11		10-66	**47**	Q	30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	49		45		21-120
Phenol-d6	43		40		10-120
Nitrobenzene-d5	47		42		23-120
2-Fluorobiphenyl	46		40		15-120
2,4,6-Tribromophenol	70		54		10-120
4-Terphenyl-d14	53		42		41-149

METALS

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-01 Date Collected: 02/28/20 10:30

Client ID: MW-1 Date Received: 02/28/20

Sample Location: WAYLAND, MA Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00195		mg/l	0.00050	--	1	03/04/20 16:09	03/05/20 09:54	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	--	1	03/04/20 16:09	03/05/20 09:54	EPA 3005A	1,6020B	AM
Chromium, Total	0.00250		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 09:54	EPA 3005A	1,6020B	AM
Copper, Total	0.00646		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 09:54	EPA 3005A	1,6020B	AM
Lead, Total	0.00196		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 09:54	EPA 3005A	1,6020B	AM
Silica, Total	12.5		mg/l	0.500	--	1	03/04/20 20:40	03/05/20 22:12	EPA 3005A	1,6010D	BV
Zinc, Total	ND		mg/l	0.01000	--	1	03/04/20 16:09	03/05/20 09:54	EPA 3005A	1,6020B	AM
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	82.1		mg/l	0.660	NA	1	03/04/20 20:40	03/05/20 22:12	EPA 3005A	1,6010D	BV

Project Name: WAYLAND HIGH SCHOOL
Lab Number: L2008992
Project Number: 2180076
Report Date: 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-02
Client ID: MW-5
Sample Location: WAYLAND, MA
Date Collected: 02/28/20 09:50
Date Received: 02/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00404		mg/l	0.00050	--	1	03/04/20 16:09	03/05/20 09:59	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	--	1	03/04/20 16:09	03/05/20 09:59	EPA 3005A	1,6020B	AM
Chromium, Total	0.00374		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 09:59	EPA 3005A	1,6020B	AM
Copper, Total	0.00978		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 09:59	EPA 3005A	1,6020B	AM
Lead, Total	0.00479		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 09:59	EPA 3005A	1,6020B	AM
Silica, Total	50.0		mg/l	2.50	--	5	03/04/20 20:40	03/06/20 09:49	EPA 3005A	1,6010D	LC
Zinc, Total	0.01518		mg/l	0.01000	--	1	03/04/20 16:09	03/05/20 09:59	EPA 3005A	1,6020B	AM
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	276		mg/l	0.660	NA	1	03/04/20 20:40	03/05/20 22:16	EPA 3005A	1,6010D	BV

Project Name: WAYLAND HIGH SCHOOL
Lab Number: L2008992
Project Number: 2180076
Report Date: 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-03
Client ID: DISCHARGE PIPE
Sample Location: WAYLAND, MA
Date Collected: 02/28/20 10:40
Date Received: 02/28/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	ND		mg/l	0.00050	--	1	03/04/20 16:09	03/05/20 10:24	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	--	1	03/04/20 16:09	03/05/20 10:24	EPA 3005A	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 10:24	EPA 3005A	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 10:24	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 10:24	EPA 3005A	1,6020B	AM
Silica, Total	5.29		mg/l	0.500	--	1	03/04/20 20:40	03/06/20 00:38	EPA 3005A	1,6010D	BV
Zinc, Total	ND		mg/l	0.01000	--	1	03/04/20 16:09	03/05/20 10:24	EPA 3005A	1,6020B	AM
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	104		mg/l	0.660	NA	1	03/04/20 20:40	03/06/20 00:38	EPA 3005A	1,6010D	BV

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-04 Date Collected: 02/28/20 11:20

Client ID: CLEANOUT 1 Date Received: 02/28/20

Sample Location: WAYLAND, MA Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00135		mg/l	0.00050	--	1	03/04/20 16:09	03/05/20 10:29	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	--	1	03/04/20 16:09	03/05/20 10:29	EPA 3005A	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 10:29	EPA 3005A	1,6020B	AM
Copper, Total	0.00122		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 10:29	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 10:29	EPA 3005A	1,6020B	AM
Silica, Total	2.60		mg/l	0.500	--	1	03/04/20 20:40	03/06/20 00:43	EPA 3005A	1,6010D	BV
Zinc, Total	0.01807		mg/l	0.01000	--	1	03/04/20 16:09	03/05/20 10:29	EPA 3005A	1,6020B	AM
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	31.4		mg/l	0.660	NA	1	03/04/20 20:40	03/06/20 00:43	EPA 3005A	1,6010D	BV

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-05 Date Collected: 02/28/20 11:45

Client ID: CLEANOUT 2 Date Received: 02/28/20

Sample Location: WAYLAND, MA Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00085		mg/l	0.00050	--	1	03/04/20 16:09	03/05/20 10:35	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	--	1	03/04/20 16:09	03/05/20 10:35	EPA 3005A	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 10:35	EPA 3005A	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 10:35	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 10:35	EPA 3005A	1,6020B	AM
Silica, Total	1.76		mg/l	0.500	--	1	03/04/20 20:40	03/06/20 00:48	EPA 3005A	1,6010D	BV
Zinc, Total	ND		mg/l	0.01000	--	1	03/04/20 16:09	03/05/20 10:35	EPA 3005A	1,6020B	AM
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	21.3		mg/l	0.660	NA	1	03/04/20 20:40	03/06/20 00:48	EPA 3005A	1,6010D	BV

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

SAMPLE RESULTS

Lab ID: L2008992-06 Date Collected: 02/28/20 12:00

Client ID: CLEANOUT 4 Date Received: 02/28/20

Sample Location: WAYLAND, MA Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00171		mg/l	0.00050	--	1	03/04/20 16:09	03/05/20 10:40	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	--	1	03/04/20 16:09	03/05/20 10:40	EPA 3005A	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 10:40	EPA 3005A	1,6020B	AM
Copper, Total	0.00224		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 10:40	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 10:40	EPA 3005A	1,6020B	AM
Silica, Total	3.68		mg/l	0.500	--	1	03/04/20 20:40	03/06/20 00:52	EPA 3005A	1,6010D	BV
Zinc, Total	0.01728		mg/l	0.01000	--	1	03/04/20 16:09	03/05/20 10:40	EPA 3005A	1,6020B	AM
Total Hardness by SM 2340B - Mansfield Lab											
Hardness	35.6		mg/l	0.660	NA	1	03/04/20 20:40	03/06/20 00:52	EPA 3005A	1,6010D	BV

Project Name: WAYLAND HIGH SCHOOL **Lab Number:** L2008992

Project Number: 2180076 **Report Date:** 03/06/20

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1347103-1										
Silica, Total	ND		mg/l	0.500	--	1	03/04/20 20:40	03/05/20 21:34	1,6010D	BV

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Mansfield Lab for sample(s): 01-06 Batch: WG1347103-1										
Hardness	ND		mg/l	0.660	NA	1	03/04/20 20:40	03/05/20 21:34	1,6010D	BV

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-06 Batch: WG1347267-1										
Arsenic, Total	ND		mg/l	0.00050	--	1	03/04/20 16:09	03/05/20 09:13	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	--	1	03/04/20 16:09	03/05/20 09:13	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 09:13	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 09:13	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	--	1	03/04/20 16:09	03/05/20 09:13	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	--	1	03/04/20 16:09	03/05/20 09:13	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WAYLAND HIGH SCHOOL

Project Number: 2180076

Lab Number: L2008992

Report Date: 03/06/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1347103-2								
Silica, Total	104		-		80-120	-		
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-06 Batch: WG1347103-2								
Hardness	106		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-06 Batch: WG1347267-2								
Arsenic, Total	106		-		80-120	-		
Cadmium, Total	108		-		80-120	-		
Chromium, Total	102		-		80-120	-		
Copper, Total	100		-		80-120	-		
Lead, Total	109		-		80-120	-		
Zinc, Total	107		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: WAYLAND HIGH SCHOOL
Project Number: 2180076

Lab Number: L2008992
Report Date: 03/06/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1347103-3 QC Sample: L2008901-01 Client ID: MS Sample												
Silica, Total	1.18	2.14	5.93	**222**	Q	-	-		75-125	-		20
Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1347103-3 QC Sample: L2008901-01 Client ID: MS Sample												
Hardness	4.65	66.2	75.1	106		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1347267-3 QC Sample: L2008883-01 Client ID: MS Sample												
Arsenic, Total	0.01562	0.12	0.1372	101		-	-		75-125	-		20
Cadmium, Total	0.00620	0.051	0.06296	111		-	-		75-125	-		20
Chromium, Total	0.9114	0.2	1.101	95		-	-		75-125	-		20
Copper, Total	0.9460	0.25	1.269	**129**	Q	-	-		75-125	-		20
Lead, Total	1.385	0.51	1.946	110		-	-		75-125	-		20
Zinc, Total	6.955	0.5	6.684	**0**	Q	-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: WAYLAND HIGH SCHOOL

Project Number: 2180076

Lab Number: L2008992

Report Date: 03/06/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-06 QC Batch ID: WG1347267-4 QC Sample: L2008883-01 Client ID: DUP Sample						
Arsenic, Total	0.01562	0.01610	mg/l	3		20
Cadmium, Total	0.00620	0.00666	mg/l	7		20
Chromium, Total	0.9114	0.9000	mg/l	1		20
Copper, Total	0.9460	0.9680	mg/l	2		20
Lead, Total	1.385	1.322	mg/l	5		20
Zinc, Total	6.955	6.974	mg/l	0		20

Project Name: WAYLAND HIGH SCHOOL
Project Number: 2180076

Lab Number: L2008992
Report Date: 03/06/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2008992-01A	Vial HCl preserved	A	NA		2.9	Y	Absent		8260(14)
L2008992-01B	Vial HCl preserved	A	NA		2.9	Y	Absent		8260(14)
L2008992-01C	Vial HCl preserved	A	NA		2.9	Y	Absent		8260(14)
L2008992-01D	Plastic 250ml HNO3 preserved	A	<2	<2	2.9	Y	Absent		CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),SO-TI(180),AS-6020T(180),CD-6020T(180),HARDT(180)
L2008992-01E	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		8270TCL-LVI(7)
L2008992-01F	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		8270TCL-LVI(7)
L2008992-02A	Vial HCl preserved	A	NA		2.9	Y	Absent		8260(14)
L2008992-02B	Vial HCl preserved	A	NA		2.9	Y	Absent		8260(14)
L2008992-02C	Vial HCl preserved	A	NA		2.9	Y	Absent		8260(14)
L2008992-02D	Plastic 250ml HNO3 preserved	A	<2	<2	2.9	Y	Absent		CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),AS-6020T(180),SO-TI(180),CD-6020T(180),HARDT(180)
L2008992-02E	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		8270TCL-LVI(7)
L2008992-02F	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		8270TCL-LVI(7)
L2008992-03A	Vial HCl preserved	A	NA		2.9	Y	Absent		8260(14)
L2008992-03B	Vial HCl preserved	A	NA		2.9	Y	Absent		8260(14)
L2008992-03C	Vial HCl preserved	A	NA		2.9	Y	Absent		8260(14)
L2008992-03D	Plastic 250ml HNO3 preserved	A	<2	<2	2.9	Y	Absent		CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),SO-TI(180),AS-6020T(180),CD-6020T(180),HARDT(180)
L2008992-03E	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		8270TCL-LVI(7)
L2008992-03F	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		8270TCL-LVI(7)
L2008992-04A	Vial HCl preserved	A	NA		2.9	Y	Absent		8260(14)
L2008992-04C	Vial HCl preserved	A	NA		2.9	Y	Absent		8260(14)

*Values in parentheses indicate holding time in days

Project Name: WAYLAND HIGH SCHOOL
Project Number: 2180076

Lab Number: L2008992
Report Date: 03/06/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2008992-04D	Plastic 250ml HNO3 preserved	A	<2	<2	2.9	Y	Absent		CR-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),SO-TI(180),AS-6020T(180),CD-6020T(180),HARDT(180)
L2008992-04E	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		8270TCL-LVI(7)
L2008992-05A	Vial HCl preserved	A	NA		2.9	Y	Absent		8260(14)
L2008992-05B	Vial HCl preserved	A	NA		2.9	Y	Absent		8260(14)
L2008992-05C	Vial HCl preserved	A	NA		2.9	Y	Absent		8260(14)
L2008992-05D	Plastic 250ml HNO3 preserved	A	<2	<2	2.9	Y	Absent		CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),SO-TI(180),AS-6020T(180),CD-6020T(180),HARDT(180)
L2008992-05E	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		8270TCL-LVI(7)
L2008992-05F	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		8270TCL-LVI(7)
L2008992-06A	Vial HCl preserved	A	NA		2.9	Y	Absent		8260(14)
L2008992-06C	Vial HCl preserved	A	NA		2.9	Y	Absent		8260(14)
L2008992-06D	Plastic 250ml HNO3 preserved	A	<2	<2	2.9	Y	Absent		CR-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),SO-TI(180),AS-6020T(180),CD-6020T(180),HARDT(180)
L2008992-06E	Amber 250ml unpreserved	A	7	7	2.9	Y	Absent		8270TCL-LVI(7)
L2008992-07A	Vial HCl preserved	A	NA		2.9	Y	Absent		8260(14)
L2008992-07B	Vial HCl preserved	A	NA		2.9	Y	Absent		8260(14)

*Values in parentheses indicate holding time in days

Project Name:	WAYLAND HIGH SCHOOL	**Lab Number:**	L2008992
Project Number:	2180076	**Report Date:**	03/06/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report

Project Name:	WAYLAND HIGH SCHOOL	**Lab Number:**	L2008992
Project Number:	2180076	**Report Date:**	03/06/20

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report

Project Name:	WAYLAND HIGH SCHOOL	**Lab Number:**	L2008992
Project Number:	2180076	**Report Date:**	03/06/20

Data Qualifiers

than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: Data Usability Report

Project Name:	WAYLAND HIGH SCHOOL	**Lab Number:**	L2008992
Project Number:	2180076	**Report Date:**	03/06/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL

8 Walkup Drive, Westboro, MA 01581, Tel: 508-898-9220
320 Forbes Blvd, Mansfield, MA 02048, Tel: 508-822-9300

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 2/28/20

ALPHA Job #: L2008992

Project Information

Project Name: Wayland High School
Project Location: Wayland MA
Project #: 2180076
Project Manager:
ALPHA Quote #:

Report Information - Data Deliverables

☐ ADEx ☒ EMAIL

Billing Information

☐ Same as Client info PO #:

Client Information

Client: Kevin MacKinnon
Address: 55 Walkers Brook Drive, Suite 100, Reading MA
Phone: 978-932-1900 ext 239
Email: mackinnk@wseinc.com

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program ______ Criteria ______

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

Additional Project Information:
- Not a sufficient amt. of water for cleanout 1 + 4, filled what was possible
- No water at cleanout 3, bottles put in cooler

ANALYSIS: VOC: ☒ 8260 ☐ 624 ☐ 524.2 (Benzene, Styrene); SVOC: ☒ ABN ☐ PAH; METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15; METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13; EPH: ☐ Ranges & Targets ☐ Ranges Only; VPH: ☐ Ranges & Targets ☐ Ranges Only; ☐ PCB ☐ PEST; TPH: ☐ Quant Only ☐ Fingerprint; Cr, As, Cd, Cu, Pb, Zn, SO4, Hardness

SAMPLE INFO — Filtration: ☐ Field ☐ Lab to do; Preservation: ☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	VOC	SVOC	METALS	METALS	EPH	VPH	PCB/PEST	TPH	Cr, As, Cd, Cu, Pb, Zn, SO4, Hardness					Sample Comments	Total # Bottles
08992-01	MW-1	2/28/20	1030	DW	JAG	X	X							X						6
02	MW-5	↓	0950	DW	↓	↓	↓							↓						6
03	Discharge Pipe	↓	1040	stormwater	↓	↓	↓							↓						6
04	Cleanout 1	↓	1120	↓	↓	↓	↓							↓						6
05	Cleanout 2	↓	1145	↓	↓	↓	↓							↓						6
06	Cleanout ~~3~~ 4 JAG	↓	1200	↓	↓	↓	↓							↓						6
07	TB-01	↓	–		–	X														2

Container Type	
Preservative	

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	2/28/20 14:30	[signature] AAL	2/28/20 14:30
[signature] AAL	2/28/20	[signature]	2/28/20 1650
[signature]	2/28/20 1920	[signature]	2/28/20 1920

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)