June 30, 2023

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

Andrew Stack, PE
Town Engineer
Engineering Division
Town of Tewksbury
999 Whipple Road
Tewksbury, MA 01876

Re: MS4 Permit Compliance – Permit Year 5
Illicit Discharge Detection and Elimination (IDDE) Investigations – Tewksbury, MA

Dear Mr. Stack:

In accordance with our agreement dated February 6, 2023, Weston & Sampson is pleased to submit this letter report regarding Illicit Discharge Detection and Elimination (IDDE) Investigations performed in Tewksbury during Permit Year 5. The report provides a synopsis of our work and findings, resulting mapping updates, and recommendations, as applicable. The work was performed in accordance with the requirements of the 2016 Massachusetts Small MS4 General Permit and the Town's Illicit Discharge Detection and Elimination Plan.

MS4 Permit Requirement

This IDDE Investigations Report has been developed for the Town of Tewksbury (hereinafter, "the Town") in addressing the requirements of the 2016 National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (2016 MS4 Permit) set forth by the United States Environmental Protection Agency (EPA).

Under the 2016 MS4 Permit, the Town is required to employ Best Management Practices (BMPs) to address the following six minimum control measures (MCMs) in an effort to reduce the discharge of pollutants from the MS4 to the maximum extent practicable. The MCMs are as follows:

1. Public Education and Outreach
2. Public Involvement and Participation
3. Illicit Discharge Detection and Elimination (IDDE) Program
4. Construction Site Stormwater Runoff Control
5. Stormwater Management in New Development and Redevelopment (Post Construction Stormwater Management)
6. Good Housekeeping and Pollution Prevention for Permittee Owned Operations

As part of MCM #3, the Town is required to implement an IDDE program to systematically investigate, identify and eliminate sources of non-stormwater discharges to its MS4 and implement procedures to prevent such discharges. This includes, but is not limited to, the following elements:

1. Developing a comprehensive map of the Town's MS4 that builds upon the outfalls and receiving waters that were previously mapped under the 2003 MS4 Permit.

2. Ensuring that appropriate regulatory mechanisms and enforcement procedures, as required under the 2003 MS4 Permit, are in place to prohibit illicit discharges.

3. Developing and implementing a written plan to detect and eliminate illicit discharges, which references the Town's authority to implement all aspects of the IDDE program, clearly identifies responsibilities with regard to eliminating illicit discharges, and outlines written procedures for dry and wet weather outfall screening and sampling and catchment investigations.

4. Providing IDDE training annually to employees involved in the IDDE program, including how to recognize illicit discharges and sanitary sewer overflows (SSOs).

5. Identifying and eliminating non-stormwater discharges from the stormwater system through implementation of a comprehensive IDDE Program.

Project Intent

In April 2023, the Town of Tewksbury retained the services of Weston & Sampson to perform dry weather in-system investigations in catchments tributary to regulated Town-owned stormwater outfalls and interconnections in accordance with the 2016 MS4 Permit requirements to screen for evidence of illicit discharges.

Catchment Investigations

Background

The Town completed an initial inventory and priority ranking to assess the illicit discharge and SSO potential of each regulated catchment and the related public health significance. The ranking established the priority order for screening of outfalls and interconnections, conducting catchment investigations for evidence of illicit discharges, and provides the basis for determining permit milestones. This inventory and ranking will be updated annually throughout the permit term to reflect new findings from dry and wet-weather sampling and other IDDE program activities.

Outfalls and interconnections are classified into one of the following categories:

1. Problem Outfalls: Outfalls/Interconnections with known or suspected contributions of illicit discharges based on existing information. This includes any outfalls/interconnection where previous screening indicates likely sewer input. Indicators of likely sewer input according to the 2016 MS4 Permit include:
    a. Olfactory or visual evidence of sewage;
    b. Ammonia $\geq$ 0.5 mg/L, surfactants $\geq$ 0.25 mg/L, and bacteria levels greater than the water quality criteria applicable to the receiving water, or
    c. Ammonia $\geq$ 0.5 mg/L, surfactants $\geq$ 0.25 mg/L, and detectable levels of chlorine.

    Problem outfalls do not require dry weather screening at the outfall since they have already been identified for additional follow-up investigation.

2. High Priority Outfalls: Outfalls/interconnections that are not problem outfalls but do meet either of the following criteria:
    a. Discharge to an area of concern to public health due to proximity of public beaches, recreational areas, or drinking water supplies;

b. Have been determined by the Town as high priority based upon the criteria included under the ranking rationale; or

c. Discharge to a water body impaired for bacteria or pathogens.

3. Low Priority Outfalls: Outfalls/interconnections determined by the Town as low priority based upon the criteria included under the ranking rationale.

4. Excluded Outfalls: Outfalls/interconnections with no potential for illicit discharges. Catchments that only include:

   a. Roadway drainage in undeveloped areas with no dwellings or sanitary sewers;

   b. Drainage for athletic fields, parks or undeveloped green space and associated parking without services; and

   c. Cross-country drainage alignments (that neither cross nor are in proximity to sanitary sewer alignments) through undeveloped land.

Excluded outfalls are not required under the permit to be screened during dry and wet weather conditions nor do their catchments need to be investigated for illicit discharges.

Catchment Investigation Procedures

Catchment investigations were conducted using a two-person team from Weston & Sampson. The team opened and inspected key junction manholes for evidence of illicit discharges in catchment areas throughout the town in order of priority based on the catchment prioritization and ranking matrix developed by the Town. Key junction manholes are manholes which represent two or more junction manholes. The team started at the first key junction manhole upstream of the outfall looking for dry weather flow or any evidence of an illicit discharge. If any key junction manhole was found to have dry-weather flow, the flow was sampled, and the team moved upstream sampling drain manholes and placing sandbags in dry pipes to collect flow that may accumulate over a 24-hour period of dry weather. Investigations were completed during a "dry weather period", where there was 0.1 inches or less of precipitation in the 24 hours prior to sampling. If no flow is found behind the sandbag, the upstream network was cleared of any non-stormwater discharge. Observed flow was sampled and analyzed for the following parameters:

- Ammonia-nitrogen;
- Chlorine;
- Temperature;
- Surfactants; and
- Escherichia Coliform (E. coli).

Samples collected were taken to Nelson Analytical Laboratory in Manchester, NH and analyzed for E. coli. All other parameters were analyzed on-site using test kits and sampling probes following procedures outlined in the Town's IDDE Plan. All sampling results can be found in Attachment A. Supporting laboratory documentation for parameters requiring laboratory analysis is included in Attachment B.

Catchment Investigation Findings

Weston & Sampson performed catchment investigations in April and May of 2023. A graph of the 24-hour precipitation totals for each day of investigations prior to the start of work is included in Attachment C. A total of 175 catchments were investigated during this time by opening key junction manholes. The inspection reports are included in Attachment D. Some key junction manholes were completely dry during screening and also did not have any visual evidence of an illicit discharge. However, there were also multiple key junction manholes that were flowing during dry weather. For key junction manholes where flow was observed, flow was tracked upstream. Sandbagging was conducted as needed to isolate any flow tributary to these locations where flow was initially observed during the key junction manhole inspections. A breakdown of findings is provided below:

- 119 Catchments were dry and/or had no other evidence of an illicit discharge.
- 56 Catchments had continuous dry weather flow or intermittent dry weather flow that was isolated during sandbagging, and dry weather flow was sampled.

During catchment investigations, 84 samples were collected from catchments with dry weather flow, and zero (0) were determined to have evidence of an illicit discharge based on the criteria identified in the 2016 MS4 Permit for likely sewer input as summarized below.

- Olfactory or visual evidence of sewage,
- Ammonia ≥ 0.5 mg/L, Surfactants ≥ 0.25 mg/L, and bacteria levels greater than the water quality criteria applicable to the receiving water. E. Coli = 235 CFU/100 mL,
- Ammonia ≥ 0.5 mg/L, Surfactants ≥ 0.25 mg/L, and detectable levels of chorine.

All sampling results are included in Attachment A.

Television Inspection

Storm drains, and sanitary sewer pipe segments adjacent to storm drains, suspected of having direct or indirect illicit connections through service connections or pipe defects should be televised to identify any defects in these systems or illicit connections to the storm drain system. Television inspection should include any storm drain segments that were found to have evidence of an illicit discharge and any sanitary sewer segments at a higher elevation and directly upstream or adjacent to the storm drain to help identify any illicit connections between the two systems.

The scope of the television inspection includes any storm drain that was found to have evidence of an illicit discharge and any sanitary sewer directly upstream or adjacent to the storm drain to determine if there is an illicit connection between the two systems, or if there are possible defects allowing for cross contamination between the two systems.

During this investigation period, television inspection was not completed since no catchments were identified as having evidence of an illicit discharge.

Dye Testing

Dye testing from within residential homes and commercial buildings was not completed since no catchments were identified as having evidence of an illicit discharge.

As dye-testing occurs in future permit years, these results will be included and discussed in future Illicit Discharge Detection and Elimination Reports.

Mapping Updates

The permit requires the Town to develop a system wide drainage map. Prior to this phase of the project, the Town already had an extensive ArcGIS online map displaying known drainage structures along with their associated attributes.

During the catchment investigations, an effort was made to update pipe connectivity and structure locations that were not accurately depicted in the Town's Drainage GIS. The updated drainage infrastructure mapping is included in Attachment E.

Recommendations

As previously noted, zero (0) catchments were identified as having likely sewer input.

During the inspections, mapping updates were made, and some drainage structures were noted to have structural defects. Improvements should be prioritized to ensure the integrity of the storm drain infrastructure and prevent any localized flooding that could result if the drainage system were to further deteriorate. The Town should incorporate and prioritize the structural defects found during the investigation into their Asset Management Plan for future maintenance and repair.

We appreciate the opportunity to assist the Town of Tewksbury in complying with their MS4 Permit. We are available to meet with you to discuss this report in more detail at your convenience.

Sincerely,

WESTON & SAMPSON ENGINEERS, INC.

Jaurice A Schwartz, PE
Team Leader

Attachment A

Sampling Results

Tewksbury, MA - Catchment Investigation Sampling Results

Catchment Outfall ID	Facility Identifier	Sample Date	Field Testing Results							Lab Results
			Estimated Flow Rate (GPM)	Temperature (°F)	Conductivity (µS/cm)	Salinity (PPT)	Ammonia (mg/L)	Surfactants (mg/L)	Chlorine (mg/L)	E.coli (MPN/100 mL)
OF-4645	CB-385	4/12/2023 12:35	Yes ~1GPM	57.74	618	0.31	0.1	0.25	0.07	<1
OF-4638	CB-4197	4/14/2023 14:17	Yes~ 2GPM	68.72	292	0.14	0	0.25	0	<1
OF-4638	CB-4201	4/14/2023 14:01	Yes ~1GPM	66.92	99	0.05	0	0	0	<1
OF-4638	CB-4680	4/14/2023 13:20	Yes ~1GPM	61.7	448	0.22	0.1	0	0	<1
OF-4500	CB-576	4/27/2023 14:29	Yes~5GPM	57.56	238	0.12	0.3	0.25	0	16
OF-98	CB-734	5/8/2023 16:30	Yes ~1GPM	55.6	210	0.11	0	0.25	0.01	<1
OF-1	DL-106	5/11/2023 15:58	Yes ~ 10GPM	65.84	614	0.31	0	0.25	0	1
OF-4388	DL-1104	5/17/2023 16:38	Yes~ 1GPM	60.98	1270	0.64	0.1	0.25	0.03	42
OF-108	DL-1181	5/8/2023 13:40	Yes ~ 5 GPM	65.84	683	0.34	0.1	0.25	0.69	2
OF-108	DL-1182	5/8/2023 13:30	Yes~ 1GPM	61.7	526	0.23	0.1	0.25	0.02	1
OF-109	DL-1189	5/8/2023 14:06	Yes ~ 5 GPM	61.88	457	0.23	0.1	0.25	0.01	2
OF-130	DL-1192	5/8/2023 14:22	Yes ~ 5 GPM	58.46	608	0.3	0.1	0.25	0.04	<1
OF-109	DL-1201	5/8/2023 13:59	Yes ~3 GPM	61.16	500	0.24	0.1	0.25	0	161
OF-4032	DL-1259	5/8/2023 17:55	Yes ~3 GPM	61.7	263	0.13	0.1	0.25	0.02	7
OF-129	DL-1329	5/8/2023 15:35	Yes ~3 GPM	60.8	513	0.36	0	0.25	0.01	1
OF-4032	DL-1356	5/8/2023 18:09	Yes ~ 5 GPM	59.36	350	0.18	0.2	0.25	0	<1
OF-134	DL-1397	5/8/2023 18:33	Yes ~3 GPM	57.56	251	0.13	0.2	0	0.06	28
OF-134	DL-1398	5/8/2023 18:24	Yes ~3 GPM	316.4	426	0.2	0.1	0.25	0.79	7
OF-187	DL-1619	5/9/2023 15:34	Yes ~5 GPM	57.56	400	0.2	0.1	0.25	0.01	<1
OF-189	DL-1636	5/9/2023 14:14	Yes ~5 GPM	57.2	319	0.16	0	0.25	0	44
OF-196	DL-1679	5/9/2023 15:45	Yes ~5 GPM	56.48	405	0.2	0.1	0.25	0.04	1
OF-3084	DL-1719	5/10/2023 12:43	Yes ~3 GPM	50.72	225	0.11	0	<.1	0	4
OF-3034	DL-1728	5/10/2023 12:52	Yes ~5 GPM	55.22	436	0.22	0.4	0.13	0	<1
OF-200	DL-1758	4/26/2023 15:17	Yes ~2 GPM	54.68	592	0.3	0.1	0.25	0.02	3
OF-3060	DL-1800	5/11/2023 18:46	Yes ~3 GPM	58.82	442	0.22	0	0.25	0	<1
OF-3060	DL-1802	5/11/2023 18:39	Yes ~3 GPM	69.98	475	0.24	0	0.25	0	<1
OF-214	DL-1831	5/16/2023 15:31	Yes ~2 GPM	60.62	168	0.08	0	0.25	0	<1
OF-4231	DL-1920	4/14/2023 17:53	Yes ~2 GPM	63.68	570	0.29	0.1	0.25	0	<1
OF-4231	DL-1927	4/13/2023 13:16	Yes~ 3 GPM	62.96	382	0.19	0	0.25	0	<1
OF-4231	DL-1938	4/13/2023 13:25	Yes ~5 GPM	61.52	273	0.14	0.1	0.25	0.12	<1
OF-252	DL-2063	5/17/2023 15:15	Yes ~5 GPM	58.1	843	0.42	0	0.25	0.03	1
OF-252	DL-2139	5/17/2023 15:23	Yes~ 3 GPM	56.84	623	0.34	0	0.25	0	<1
OF-329	DL-2270	5/17/2023 11:58	Yes ~10 GPM	51.8	397	0.2	0.2	0.25	0	76
OF-332	DL-2285	4/14/2023 16:33	Yes~ 2GPM	64.76	768	0.39	0.2	0.25	0	<1
OF-17	DL-235	5/11/2023 13:04	Yes~ 3 GPM	55.76	134	0.07	0.1	0.25	0	1
OF-4358	DL-2361	4/13/2023 11:54	Yes~ 2GPM	52.88	284	0.14	0	0.25	0.01	<1
OF-1	DL-256	5/11/2023 15:46	Yes ~5 GPM	64.58	260	0.13	0.2	0.25	0.01	4
OF-4202	DL-2717	4/13/2023 12:52	Yes ~5 GPM	57.92	497	0.25	0	0.25	0	<1
OF-364	DL-2895	5/10/2023 14:25	Yes~ 3 GPM	56.66	834	0.4	0	0.1	0.01	<1
OF-4638	DL-301	4/14/2023 12:52	Yes ~10 GPM	61.34	462	0.23	0	0.25	0	<1
OF-27	DL-319	5/11/2023 15:01	Yes ~1GPM	64.58	288	0.14	0	0	0	<1
OF-32	DL-373	4/12/2023 14:14	Yes ~5 GPM	60.44	538	0.27	0.1	0.25	0.04	<1
OF-32	DL-379	4/12/2023 15:15	Yes ~1GPM	65.12	625	0.3	0	0.25	0	<1
OF-4095	DL-456	4/12/2023 13:23	Yes ~1GPM	55.58	533	0.27	0	0.25	0	<1
OF-4561	DL-483	4/27/2023 14:00	Yes ~ 3 GPM	34.52	331	0.17	0.3	0.25	0	31
OF-44	DL-497	4/27/2023 12:34	Yes ~ 3 GPM	47.84	271	0.14	0	0.25	0.2	<1
OF-44	DL-498	4/27/2023 12:42	Yes ~ 3 GPM	49.82	298	0.15	0.4	0.25	0.05	4
OF-44	DL-499	4/27/2023 12:49	Yes ~ 3 GPM	50	384	0.19	0	0.25	0.03	3
OF-4561	DL-500	4/27/2023 14:02	Yes ~1GPM	57.38	147	0.07	0.1	0.25	0	<1

Tewksbury, MA - Catchment Investigation Sampling Results

Catchment Outfall ID	Facility Identifier	Sample Date	Field Testing Results							Lab Results
			Estimated Flow Rate (GPM)	Temperature (°F)	Conductivity (µS/cm)	Salinity (PPT)	Ammonia (mg/L)	Surfactants (mg/L)	Chlorine (mg/L)	E.coli (MPN/100 mL)
OF-3080	DL-6000	5/10/2023 14:44	Yes ~ 3 GPM	57.56	535	0.27	0.2	<.1	0.02	<1
OF-3029	DL-6007	5/10/2023 15:00	Yes ~5 GPM	58.28	452	0.22	0.1	0.13	0	<1
OF-3029	DL-6009	5/10/2023 15:10	Yes ~ 3 GPM	58.28	860	0.43	0	<.05	0.04	3
OF-55	DL-611	4/26/2023 14:03	Yes ~ 3 GPM	52.7	528µS	0.26	0.2	0.25	0.12	2
OF-4095	DL-613	4/12/2023 13:09	Yes ~5 GPM	55.58	389	0.2	0	0.25	0	<1
OF-4113	DL-6191	4/26/2023 12:28	Yes ~ 20 GPM	50.54	312	0.16	0.3	0.25	0	326
OF-4113	DL-6200	4/26/2023 12:59	Yes ~ 3 GPM	50.36	279	0.14	0.3	0.25	0.16	135
OF-4113	DL-6209	4/26/2023 13:13	Yes ~ 8 GPM	51.26	238	0.12	0.04	0.5	0.45	205
OF-4113	DL-6347	4/26/2023 12:39	Yes ~5 GPM	50.72	415	0.21	0.1	0.25	0.04	<1
OF-4113	DL-6348	4/26/2023 12:47	Yes ~5 GPM	50.36	471	0.23	0.2	0.25	0.15	15
OF-4113	DL-6349	4/26/2023 12:52	Yes ~5 GPM	50.18	471	0.25	0.2	0.25	0	15
OF-3020	DL-6364	4/26/2023 11:59	Yes ~1GPM	49.82	464	0.23	0.3	0.25	0	2
OF-4545	DL-6582	4/12/2023 15:51	Yes ~5 GPM	60.62	567	0.29	0	0.25	0.02	<1
OF-32	DL-6619	4/12/2023 14:58	Yes ~ 3 GPM	58.64	808	0.41	0	0.25	0	<1
OF-4545	DL-6580	4/12/2023 15:55	Yes ~ 3 GPM	58.28	681	0.33	0	0.25	0	<1
OF-3051	DL-662	4/12/2023 12:54	Yes ~ 15GPM	55.22	580	0.29	0.1	0.25	0	2
OF-4559	DL-672	4/27/2023 13:47	Yes ~ 3 GPM	53.06	524	0.26	0.1	0.25	0	13
OF-4233	DL-678	4/27/2023 13:18	Yes ~ 15GPM	52.52	285	0.14	0.4	0.25	0	10
OF-29	DL-6753	5/11/2023 15:21	Yes ~ 3 GPM	62.78	1248	0.62	0.1	0.25	0.03	1
OF-3096	DL-6857	4/26/2023 17:47	Yes ~ 3 GPM	57.2	489	0.24	0.2	0.25	0	17
OF-4500	DL-691	4/27/2023 14:40	Yes ~ 3 GPM	56.48	340	0.17	0.1	0.25	0	1
OF-3082	DL-6913	4/26/2023 16:51	Yes ~ 3 GPM	57.2	878	0.44	0.1	0.25	0.03	<1
OF-3083	DL-6924	4/26/2023 16:33	Yes ~1GPM	54.86	183	0.09	0.1	0	0.01	5
OF-4361	DL-7297	4/13/2023 12:03	Yes ~1GPM	52.7	583	0.29	0.1	0.25	0	<1
OF-47	DL-705	4/26/2023 18:39	Yes ~1GPM	57.38	335	0.17	0.1	0.25	0.05	<1
OF-4638	DL-7303	4/14/2023 13:34	Yes ~ 3 GPM	64.58	113	0.06	0.1	0.25	0	<1
OF-4559	DL-809	4/27/2023 13:26	Yes ~ 3 GPM	53.06	337	0.17	0.1	0.25	0	1
OF-4500	DL-7308	4/27/2023 14:50	Yes ~ 3 GPM	58.64	128.8	0.06	0.1	0.25	0	<1
OF-240	DL-7313	5/16/2023 14:08	Yes ~1GPM	56.84	412	0.21	0.1	0.25	0	<1
OF-19	DL-79	5/11/2023 13:20	Yes ~ 3 GPM	57.38	475	0.24	0	0	0.03	<1
OF-85	DL-907	5/9/2023 18:31	Yes ~1GPM	65.84	812	0.41	2	0.5	0	119
OF-23	DL-97	5/11/2023 14:19	Yes ~1GPM	59.9	252	0.13	0	0.25	0	4
OF-99	DL-980	5/8/2023 15:56	Yes ~ 3 GPM	61.7	228	0.1	0.6	0.25	0	<1
OF-100	DL-995	5/9/2023 13:32	Yes ~ 3 GPM	57.2	624	0.31	0.1	0.25	0.03	<1
OF-122	MH-193	5/9/2023 12:22	Yes ~ 3 GPM	54.86	1164	0.58	0.1	0.25	0	<1

*The 2016 MS4 Permit identifies likely sewer input indicators as follows:

Ammonia ≥ 0.5 mg/L, surfactants ≥ 0.25 mg/L, and bacteria levels greater than the water quality criteria applicable to the receiving water. E. Coli = 235 CFU/100 mL.

Ammonia ≥ 0.5 mg/L, surfactants ≥ 0.25 mg/L, and detectable levels of chlorine.

The catchment area to this outfall has a suspected illicit connection based upon MS4 Permit criteria, which indicates likely sewer input.

The outfall sampling results exceed water quality standards/benchmark criteria.

Attachment B

Laboratory Documentation

RP230413144

NELSON ANALYTICAL LAB

490 East Industrial Park Drive
Manchester, NH 03109
(603)622-0200

NH ELAP Accreditation #NH1005
Maine Certification # NH01005
Vermont State Certification # VT1005
www.nelsonanalytical.com

Client: Weston & Sampson:

13 April 2023

55 Walkers Brooks Drive Reading MA , 01867:

Enclosed are the results of analytical testing performed on the following samples:

Laboratory ID	Client Sample ID	Sample Location	Sample matrix	Date sampled	Date received
123041254.01	Tewksbury IDDE, Tewksbury, MA:	**DL-613**	Surface Water	12-Apr-23 09:13	12-Apr-23 16:50
123041254.02	Tewksbury IDDE, Tewksbury, MA:	**DL-456**	Surface Water	12-Apr-23 09:26	12-Apr-23 16:50
123041254.03	Tewksbury IDDE, Tewksbury, MA:	**DL-385**	Surface Water	12-Apr-23 08:36	12-Apr-23 16:50
123041254.04	Tewksbury IDDE, Tewksbury, MA:	**DL-6582**	Surface Water	12-Apr-23 11:49	12-Apr-23 16:50
123041254.05	Tewksbury IDDE, Tewksbury, MA:	**DL-6619**	Surface Water	12-Apr-23 11:00	12-Apr-23 16:50
123041254.06	Tewksbury IDDE, Tewksbury, MA:	**DL-661**	Surface Water	12-Apr-23 08:56	12-Apr-23 16:50
123041254.07	Tewksbury IDDE, Tewksbury, MA:	**DL-373**	Surface Water	12-Apr-23 10:18	12-Apr-23 16:50
123041254.08	Tewksbury IDDE, Tewksbury, MA:	**DL-6580**	Surface Water	12-Apr-23 11:53	12-Apr-23 16:50
123041254.09	Tewksbury IDDE, Tewksbury, MA:	**DL-379**	Surface Water	12-Apr-23 11:18	12-Apr-23 16:50

The results in this report relate only to the submitted samples. If you have any questions concerning this report, please feel free to contact us at (603)622-0200.

Approved By:

Andrew Nelson Laboratory Director

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
Solid samples are reported on a dry weight basis unless noted otherwise.
Subcontract Laboratories: SUB2: Nelson Analytical Maine NH2018 SUB 7: Nelson Analytical EAI Div. NH1007, SUB4:NH2073, SUB5:NH2530, SUB8:NH2136, SUB9:NH2557
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/
http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx
https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml
https://www.mass.gov/certified-laboratories

NELSON ANALYTICAL LAB

490 East Industrial Park Drive
Manchester, NH 03109
(603)622-0200

RP230413144

NH ELAP Accreditation #NH1005
Maine State Certification #NH01005
Vermont State Certifcation #VT1005
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Date Reported : 13-Apr-23 16:36

REPORT OF ANALYSIS

sampled Date: 12-Apr-2023 09:13

123041254.01

Tewksbury IDDE, Tewksbury, MA

DL-613

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/12/2023 17:30	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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http://des.nh.gov/organization/divisions/water/dwgb/nhelap/
http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx
https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml
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Date Reported : 13-Apr-23 16:36

REPORT OF ANALYSIS

123041254.02

Tewksbury IDDE, Tewksbury, MA

DL-456

sampled Date: 12-Apr-2023 09:26

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/12/2023 17:30	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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Date Reported : 13-Apr-23 16:36

REPORT OF ANALYSIS

123041254.03

Tewksbury IDDE, Tewksbury, MA

DL-385

sampled Date: 12-Apr-2023 08:36

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/12/2023 17:30	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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Date Reported : 13-Apr-23 16:36

REPORT OF ANALYSIS

123041254.04

Tewksbury IDDE, Tewksbury, MA

DL-6582

sampled Date: 12-Apr-2023 11:49

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/12/2023 17:30	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230413144

Date Reported : 13-Apr-23 16:36

REPORT OF ANALYSIS

123041254.05

Tewksbury IDDE, Tewksbury, MA

DL-6619

sampled Date: 12-Apr-2023 11:00

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/12/2023 17:30	SM 9223B	KF

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RP230413144

Date Reported : 13-Apr-23 16:36

REPORT OF ANALYSIS

123041254.06

Tewksbury IDDE, Tewksbury, MA

DL-661

sampled Date: 12-Apr-2023 08:56

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**2**	1	mpn/100mL	04/12/2023 17:30	SM 9223B	KF

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Date Reported : 13-Apr-23 16:36

REPORT OF ANALYSIS

123041254.07

Tewksbury IDDE, Tewksbury, MA

DL-373

sampled Date: 12-Apr-2023 10:18

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/12/2023 17:30	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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Date Reported : 13-Apr-23 16:36

REPORT OF ANALYSIS

123041254.08

Tewksbury IDDE, Tewksbury, MA

DL-6580

sampled Date: 12-Apr-2023 11:53

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/12/2023 17:30	SM 9223B	KF

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RP230413144

Date Reported : 13-Apr-23 16:36

REPORT OF ANALYSIS

123041254.09

Tewksbury IDDE, Tewksbury, MA

DL-379

sampled Date: 12-Apr-2023 11:18

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/12/2023 17:30	SM 9223B	KF

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RP230413144

12304-1254

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 5_07/13/2021

Page 1 of 1

Company Name:	Weston & Sampson
Address:	55 Walkers Brook Dr. Reading
Phone:	978-516-8969
Project Name:	Tewksbury DDC
Project Location:	Tewksbury MA
Project Number:	
Project Manager:	
Pace Quote Name/Number:	
Invoice Recipient:	Andy Gaughan
Sampled By:	Andy Gaughan

Requested Turnaround Time
7-Day ☐ 10-Day ☐
PFAS 10-Day (std) ☐ Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: gaughan.andrew@wsp.com
Fax To #:

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☐
NON SOXHLET ☐

ANALYSIS REQUESTED

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	Tot. Coli
	DL-613	4/11	9:13	G	O				X	X		X
	DL-456		9:26									
	CB-385		8:36									
	DL-6582		11:49									
	DL-6619		11:00									
	DL-6601		8:56									
	DL-373		10:18									
	DL-6580		11:53									
	DL-379		11:18									

[2] Preservation Code
Courier Use Only
Total Number Of:
VIALS
GLASS
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Pace Analytical is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define) Stormwater

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished by: (signature)	Date/Time: 4/12/23 3:15 PM	Client Comments:
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time: 4/12/23	
Relinquished by: (signature)	Date/Time: 1650	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Date Rec'd: 4/12/23 Time Rec'd: 1650
Rec'd by: AMG Location:
Cooler: (Y) N Temp Rec'd: 14.0
Chlorine: Pos (Neg) NA PWS
Bottle: TC MIN 40ML HCL

Detection Limit Requirements
MA
CT
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☑ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

Lab Comments:

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

RP230414130

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Client: Weston & Sampson:

14 April 2023

55 Walkers Brooks Drive Reading MA , 01867:

Enclosed are the results of analytical testing performed on the following samples:

Laboratory ID	Client Sample ID	Sample Location	Sample matrix	Date sampled	Date received
123041399.01	Tewksbury Catchment Investigaton, Tewksbury, MA:	**DL-2361**	Surface Water	13-Apr-23 08:00	13-Apr-23 17:00
123041399.02	Tewksbury Catchment Investigaton, Tewksbury, MA:	**DL-7297**	Surface Water	13-Apr-23 08:06	13-Apr-23 17:00
123041399.03	Tewksbury Catchment Investigaton, Tewksbury, MA:	**DL-1927**	Surface Water	13-Apr-23 09:13	13-Apr-23 17:00
123041399.04	Tewksbury Catchment Investigaton, Tewksbury, MA:	**DL-1938**	Surface Water	13-Apr-23 09:25	13-Apr-23 17:00
123041399.05	Tewksbury Catchment Investigaton, Tewksbury, MA:	**DL-2717**	Surface Water	13-Apr-23 08:59	13-Apr-23 17:00

The results in this report relate only to the submitted samples. If you have any questions concerning this report, please feel free to contact us at (603)622-0200.

Approved By:

Andrew Nelson Laboratory Director

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RP230414130

Date Reported : 14-Apr-23 13:19

REPORT OF ANALYSIS

sampled Date: 13-Apr-2023 08:00

123041399.01

Tewksbury Catchment Investigaton, Tewksbury, MA

DL-2361

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/13/2023 17:00	SM 9223B	LS

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RP230414130

Date Reported : 14-Apr-23 13:19

REPORT OF ANALYSIS

sampled Date: 13-Apr-2023 08:06

123041399.02

Tewksbury Catchment Investigaton, Tewksbury, MA

DL-7297

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/13/2023 17:00	SM 9223B	LS

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230414130

Date Reported : 14-Apr-23 13:19

REPORT OF ANALYSIS

sampled Date: 13-Apr-2023 09:13

123041399.03

Tewksbury Catchment Investigaton, Tewksbury, MA

DL-1927

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/13/2023 17:00	SM 9223B	LS

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RP230414130

Date Reported : 14-Apr-23 13:19

REPORT OF ANALYSIS

sampled Date: 13-Apr-2023 09:25

123041399.04

Tewksbury Catchment Investigaton, Tewksbury, MA

DL-1938

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/13/2023 17:00	SM 9223B	LS

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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Date Reported : 14-Apr-23 13:19

REPORT OF ANALYSIS

sampled Date: 13-Apr-2023 08:59

123041399.05

Tewksbury Catchment Investigaton, Tewksbury, MA

DL-2717

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/13/2023 17:00	SM 9223B	LS

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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12304-1399 1-4-5

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Doc # 381 Rev 5_07/13/2021

39 Spruce Street
East Longmeadow, MA 01028

Page ____ of ____

Company Name:	Weston & Sampson
Address:	55 Walkers Brook Dr
Phone:	(978) 532-1900
Project Name:	Tewksbury Catchment Investigation
Project Location:	Tewksbury, MA
Project Number:	Eng 23-0219
Project Manager:	
Pace Quote Name/Number:	
Invoice Recipient:	gaughan.andrew@wseinc.com
Sampled By:	Andrew Gaughan

Requested Turnaround Time
7-Day ☐ 10-Day ☐
PFAS 10-Day (std) ☐ Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: gaughan.andrew@wseinc.com
Fax To #:

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☐
NON SOXHLET ☐

ANALYSIS REQUESTED

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	E. Coli
	DL-2361	8:00										X
	DL-7297	8:06										↓
	DL-1927	9:13										
	DL-1938	9:25										
mas 4/13/23	DL-2711 0859											

Relinquished by: (signature)	Date/Time: 4/13/23 3:30PM	Client Comments:
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA
CT
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

Lab Comments:

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

Courier Use Only
Total Number Of:
VIALS
GLASS
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Pace Analytical is not responsible for missing samples from prepacked coolers

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[2] Preservation Code

5 TCJ 4.0 pumas 4/13/23 1700

RP230414130

123041394

Re: Tewksbury Catchment Extra Sample

Gaughan, Andrew <Gaughan.Andrew@wseinc.com>
Fri 4/14/2023 11:17 AM
To: mbaraban nelsonanalytical.com <mbaraban@nelsonanalytical.com>

Yes thank you for running that test. It should be included I must have forgotten to write it down.

I appreciate your help!
Andy

Get Outlook for iOS

From: mbaraban nelsonanalytical.com <mbaraban@nelsonanalytical.com>
Sent: Friday, April 14, 2023 10:36:29 AM
To: Gaughan, Andrew <Gaughan.Andrew@wseinc.com>
Subject: Tewksbury Catchment Extra Sample

Hi Andrew,

This is a follow up to the voicemail I left 4/13/23.
We received sample DL-2717 for Tewksbury yesterday, 4/13/23, but it was not listed on the sample submission form. We added it to the sample submission form and started the test. Please confirm that this is correct.

Thank you for using Nelson Analytical Lab,

Marcy
Nelson Analytical Lab
490 East Industrial Park Dr.
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603-622-0200
The contents of this e-mail and any attachments are the property of the Weston & Sampson companies. The e-mail contents are only to be used by the intended recipient of the e-mail. If you are not the intended recipient, then use, disclosure, copying, distribution or reliance on the e-mail is prohibited. All professional advice from us should be obtained in writing (not e-mail).

RP230417161

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Client: Weston & Sampson:

17 April 2023

55 Walkers Brooks Drive Reading MA , 01867:

Enclosed are the results of analytical testing performed on the following samples:

Laboratory ID	Client Sample ID	Sample Location	Sample matrix	Date sampled	Date received
123041554.01	Tewksbury Catchment Investigaton, Tewksbury, MA:	**DL-7303**	Surface Water	14-Apr-23 09:38	14-Apr-23 16:30
123041554.02	Tewksbury Catchment Investigaton, Tewksbury, MA:	**CB-4201**	Surface Water	14-Apr-23 10:03	14-Apr-23 16:30
123041554.03	Tewksbury Catchment Investigaton, Tewksbury, MA:	**CB-4680**	Surface Water	14-Apr-23 09:23	14-Apr-23 16:30
123041554.04	Tewksbury Catchment Investigaton, Tewksbury, MA:	**DL-301**	Surface Water	14-Apr-23 08:54	14-Apr-23 16:30
123041554.05	Tewksbury Catchment Investigaton, Tewksbury, MA:	**DL-1920**	Surface Water	14-Apr-23 13:47	14-Apr-23 16:30
123041554.06	Tewksbury Catchment Investigaton, Tewksbury, MA:	**DL-2285**	Surface Water	14-Apr-23 12:35	14-Apr-23 16:30
123041554.07	Tewksbury Catchment Investigaton, Tewksbury, MA:	**CB-4197**	Surface Water	14-Apr-23 10:19	14-Apr-23 16:30

The results in this report relate only to the submitted samples. If you have any questions concerning this report, please feel free to contact us at (603)622-0200.

Approved By:

Kimberly Wright Laboratory Director

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Date Reported : 17-Apr-23 15:43

REPORT OF ANALYSIS

sampled Date: 14-Apr-2023 09:38

123041554.01

Tewksbury Catchment Investigaton, Tewksbury, MA

DL-7303

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/14/2023 17:00	SM 9223B	KF

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Date Reported : 17-Apr-23 15:43

REPORT OF ANALYSIS

sampled Date: 14-Apr-2023 10:03

123041554.02

Tewksbury Catchment Investigaton, Tewksbury, MA

CB-4201

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/14/2023 17:00	SM 9223B	KF

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Date Reported : 17-Apr-23 15:43

REPORT OF ANALYSIS

sampled Date: 14-Apr-2023 09:23

123041554.03

Tewksbury Catchment Investigaton, Tewksbury, MA

CB-4680

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/14/2023 17:00	SM 9223B	KF

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Date Reported : 17-Apr-23 15:43

REPORT OF ANALYSIS

sampled Date: 14-Apr-2023 08:54

123041554.04

Tewksbury Catchment Investigaton, Tewksbury, MA

DL-301

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/14/2023 17:00	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230417161

Date Reported : 17-Apr-23 15:43

REPORT OF ANALYSIS

sampled Date: 14-Apr-2023 01:47

123041554.05

Tewksbury Catchment Investigaton, Tewksbury, MA

DL-1920

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/14/2023 17:00	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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490 East Industrial Park Drive
Manchester, NH 03109
(603)622-0200

NH ELAP Accreditation #NH1005
Maine State Certification #NH01005
Vermont State Certifcation #VT1005
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RP230417161

Date Reported : 17-Apr-23 15:43

REPORT OF ANALYSIS

sampled Date: 14-Apr-2023 12:35

123041554.06

Tewksbury Catchment Investigaton, Tewksbury, MA

DL-2285

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/14/2023 17:00	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230417161

Date Reported : 17-Apr-23 15:43

REPORT OF ANALYSIS

sampled Date: 14-Apr-2023 10:19

123041554.07

Tewksbury Catchment Investigaton, Tewksbury, MA

CB-4197

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/14/2023 17:00	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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E-Mail: info@nelsonanalytical.com

Lab ID: 123041554 1-7
Date Rec'd: 4/14/23 Time Rec'd: 1630 Temp Rec'd: 5.8
Rec'd by: MM Location: PUTS
Cooler (Y) N Ice (Y) N
Chlorine Pos (Neg) N/A
Bottles: 40ml HCL__40ml MeOH__4oz. Glass__
1L Amber HCL__MIN__250ml__LC__
Other:

Turnaround Requirements

Please inquire about rush service. If we are able to meet your needs, we will not charge a rush fee. Please call for prior approval.

Same day [ ]
One Day [ ]
Two Day [ ]
Three Day [ ]
Normal [X]

Project Information

Project #:
Project Name: Tewksbury Catchment Invest.
Town/Site: Tewksbury, MA
Sampler: Andrew Gaughan
Company: Weston & Sampson

Project Manager:
Report to: Andrew Gaughan
Invoice to: gaughan.andrew@wseinc.com
Phone: 978-516-8969
E-Mail:

Receipt Conditions (Lab Use Only):

Laboratory Supplied Containers? ___Yes ___No
Containers Intact/Properly Labeled? ___Yes ___No
Were samples delivered on ice? ___Yes ___No
Brought directly from field? ___Yes ___No

Sample storage requirements:
ROOM TEMP / FREEZER/ REFRIGERATOR

Detection Requirements

Please specify any detection requirements:

Sample Matrix Key

Please Indicate the sample matrix in the sample matrix column by using the respective codes below:

S Soil DW Drinking Water GW Groundwater WW Wastewater (SW Surface Water) O Oil X Other (specify):

Project Requirements: Quote #:
NH Odd Fund: Y / N MCP: Y / N
Notes:

Sample Information

Sample ID	Collection Date/Time	Sample Matrix (see key)	# of Containers	E. Coli	Laboratory ID
DL-7303	9:38		1	X	1
CB-4201	10:03		1		2
CB-4680	9:23		1		3
DL-301	8:54		1		4
DL-1920	1:47		1		5
DL-2285	12:35		1		6
CB-4197	10:19		1		7

Relinquished by:	Date: 4/14/23 Time: 3:30	Received by:	NOTES:
Relinquished by:	Date: Time:	Received by:	
Relinquished by:	Date: Time:	Received by:	

4/14/23 1630

FRM-NH-Environmental Sample Submission-01 09.05.2019

RP23041716

RP230427107

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Client: Weston & Sampson:

27 April 2023

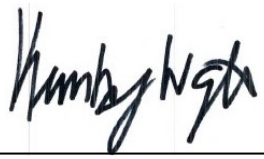
55 Walkers Brooks Drive Reading MA , 01867:

Enclosed are the results of analytical testing performed on the following samples:

Laboratory ID	Client Sample ID	Sample Location	Sample matrix	Date sampled	Date received
123042607.01	Tewksbury IDDE, Tewksbury, MA:	**DL-6364**	Surface Water	26-Apr-23 08:00	26-Apr-23 16:30
123042607.02	Tewksbury IDDE, Tewksbury, MA:	**DL-6191**	Surface Water	26-Apr-23 08:29	26-Apr-23 16:30
123042607.03	Tewksbury IDDE, Tewksbury, MA:	**DL-6347**	Surface Water	26-Apr-23 08:41	26-Apr-23 16:30
123042607.04	Tewksbury IDDE, Tewksbury, MA:	**DL-6348**	Surface Water	26-Apr-23 08:46	26-Apr-23 16:30
123042607.05	Tewksbury IDDE, Tewksbury, MA:	**DL-6349**	Surface Water	26-Apr-23 08:52	26-Apr-23 16:30
123042607.06	Tewksbury IDDE, Tewksbury, MA:	**DL-6200**	Surface Water	26-Apr-23 09:00	26-Apr-23 16:30
123042607.07	Tewksbury IDDE, Tewksbury, MA:	**DL-6209**	Surface Water	26-Apr-23 09:18	26-Apr-23 16:30
123042607.08	Tewksbury IDDE, Tewksbury, MA:	**DL-611**	Surface Water	26-Apr-23 10:03	26-Apr-23 16:30
123042607.09	Tewksbury IDDE, Tewksbury, MA:	**DL-1758**	Surface Water	26-Apr-23 11:18	26-Apr-23 16:30
123042607.10	Tewksbury IDDE, Tewksbury, MA:	**DL-6924**	Surface Water	26-Apr-23 12:33	26-Apr-23 16:30
123042607.11	Tewksbury IDDE, Tewksbury, MA:	**DL-6913**	Surface Water	26-Apr-23 12:58	26-Apr-23 16:30
123042607.12	Tewksbury IDDE, Tewksbury, MA:	**DL-6857**	Surface Water	26-Apr-23 13:50	26-Apr-23 16:30
123042607.13	Tewksbury IDDE, Tewksbury, MA:	**DL-705**	Surface Water	26-Apr-23 14:43	26-Apr-23 16:30

The results in this report relate only to the submitted samples. If you have any questions concerning this report, please feel free to contact us at (603)622-0200.

Approved By:



Kimberly Wright Laboratory Director

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RP230427107

Date Reported : 27-Apr-23 17:17

REPORT OF ANALYSIS

sampled Date: 26-Apr-2023 08:00

123042607.01

Tewksbury IDDE, Tewksbury, MA

DL-6364

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**2**	1	mpn/100mL	04/26/2023 17:15	SM 9223B	KF

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RP230427107

Date Reported : 27-Apr-23 17:17

REPORT OF ANALYSIS

123042607.02

Tewksbury IDDE, Tewksbury, MA

DL-6191

sampled Date: 26-Apr-2023 08:29

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**326**	1	mpn/100mL	04/26/2023 17:15	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230427107

Date Reported : 27-Apr-23 17:17

REPORT OF ANALYSIS

123042607.03

Tewksbury IDDE, Tewksbury, MA

DL-6347

sampled Date: 26-Apr-2023 08:41

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/26/2023 17:15	SM 9223B	KF

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RP230427107

Date Reported : 27-Apr-23 17:17

REPORT OF ANALYSIS

sampled Date: 26-Apr-2023 08:46

123042607.04

Tewksbury IDDE, Tewksbury, MA

DL-6348

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**15**	1	mpn/100mL	04/26/2023 17:15	SM 9223B	KF

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RP230427107

Date Reported : 27-Apr-23 17:17

REPORT OF ANALYSIS

123042607.05

Tewksbury IDDE, Tewksbury, MA

DL-6349

sampled Date: 26-Apr-2023 08:52

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**15**	1	mpn/100mL	04/26/2023 17:15	SM 9223B	KF

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RP230427107

Date Reported : 27-Apr-23 17:17

REPORT OF ANALYSIS

sampled Date: 26-Apr-2023 09:00

123042607.06

Tewksbury IDDE, Tewksbury, MA

DL-6200

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**135**	1	mpn/100mL	04/26/2023 17:15	SM 9223B	KF

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Date Reported : 27-Apr-23 17:17

REPORT OF ANALYSIS

123042607.07

Tewksbury IDDE, Tewksbury, MA

DL-6209

sampled Date: 26-Apr-2023 09:18

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**205**	1	mpn/100mL	04/26/2023 17:15	SM 9223B	KF

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RP230427107

Date Reported : 27-Apr-23 17:17

REPORT OF ANALYSIS

sampled Date: 26-Apr-2023 10:03

123042607.08

Tewksbury IDDE, Tewksbury, MA

DL-611

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**2**	1	mpn/100mL	04/26/2023 17:15	SM 9223B	KF

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https://www.mass.gov/certified-laboratories

NELSON ANALYTICAL LAB

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RP230427107

Date Reported : 27-Apr-23 17:17

REPORT OF ANALYSIS

123042607.09

Tewksbury IDDE, Tewksbury, MA

DL-1758

sampled Date: 26-Apr-2023 11:18

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**3**	1	mpn/100mL	04/26/2023 17:15	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
Solid samples are reported on a dry weight basis unless noted otherwise.
Subcontract Laboratories: SUB2: Nelson Analytical Maine NH2018 SUB 7: Nelson Analytical EAI Div. NH1007, SUB4:NH2073, SUB5:NH2530, SUB8:NH2136, SUB9:NH2557
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/
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RP230427107

Date Reported : 27-Apr-23 17:17

REPORT OF ANALYSIS

123042607.10

Tewksbury IDDE, Tewksbury, MA

DL-6924

sampled Date: 26-Apr-2023 12:33

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**5**	1	mpn/100mL	04/26/2023 17:15	SM 9223B	KF

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RP230427107

Date Reported : 27-Apr-23 17:17

REPORT OF ANALYSIS

123042607.11

Tewksbury IDDE, Tewksbury, MA

DL-6913

sampled Date: 26-Apr-2023 12:58

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/26/2023 17:15	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230427107

Date Reported : 27-Apr-23 17:17

REPORT OF ANALYSIS

sampled Date: 26-Apr-2023 01:50

123042607.12

Tewksbury IDDE, Tewksbury, MA

DL-6857

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**17**	1	mpn/100mL	04/26/2023 17:15	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230427107

Date Reported : 27-Apr-23 17:17

REPORT OF ANALYSIS

123042607.13

Tewksbury IDDE, Tewksbury, MA

DL-705

sampled Date: 26-Apr-2023 02:43

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/26/2023 17:15	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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12304-2607 1-13

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CHAIN OF CUSTODY RECORD

Doc # 381 Rev 5_07/13/2021

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	NEston & Simpson
Address:	55 Walkers Brook Drive Reading
Phone:	978-516-8469
Project Name:	TEWKSBURY IDDE
Project Location:	TEWKSBURY MA
Project Number:	
Project Manager:	MEG MILLER
Pace Quote Name/Number:	
Invoice Recipient:	ANDY GAUGHAN
Sampled By:	

Requested Turnaround Time
7-Day ☐ 10-Day ☐
PFAS 10-Day (std) ☐ Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: swashan, andrew @ nseinc.com
Fax To #:

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☐
NON SOXHLET ☐

ANALYSIS REQUESTED

E.COLI

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	
	DL-6364	8:00	4/26		O			X		X	1	X
	DL-6191	8:29									2	
	DL-6347	8:41									3	
	DL-6348	8:46									4	
	DL-6349	8:52									5	
	DL-6200	9:00									6	
	DL-6209	9:18									7	
	DL-611	10:03									8	
	DL-1758	11:18									9	
	DL-6924	12:33									10	

[2] Preservation Code
Courier Use Only
Total Number Of:
VIALS_____
GLASS_____
PLASTIC_____
BACTERIA_____
ENCORE_____

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Pace Analytical is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define) Storm Water

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished by: (signature)	Date/Time: 4/26 3:00
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments:

Detection Limit Requirements
MA
CT
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

Lab Comments:

4/26/23 1630 12.5
Date Rec'd: Time Rec'd: Temp Rec'd:
Rec'd by: Location: PUTS
Cooler: Y N Ice: Y N
Chlorine: Pos Neg NA
Bottle: TC: 1 MIN 40ML HCL LC OTHER
13

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

RP230427107

12304-2609 1-13

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CHAIN OF CUSTODY RECORD

Doc # 381 Rev 5_07/13/2021

39 Spruce Street
East Longmeadow, MA 01028

Page ____ of ____

Company Name: Weston&Sampson
Address: 55 Walkers Brook Dr Reading
Phone: 978-516-8969
Project Name: Tewksbury IDDE
Project Location: Tewksbury MA
Project Number:
Project Manager: Meg Miller
Pace Quote Name/Number:
Invoice Recipient: Andy Gaughan
Sampled By:

Requested Turnaround Time			
7-Day	☐	10-Day	☐
PFAS 10-Day (std)	☐	Due Date:	

Rush-Approval Required			
1-Day	☐	3-Day	☐
2-Day	☐	4-Day	☐

Data Delivery			
Format:	PDF ☒	EXCEL	☐
Other:			
CLP Like Data Pkg Required:	☐		
Email To:	gaughan.andrew@wseinc.com		
Fax To #:			

Dissolved Metals Samples	
○	Field Filtered
○	Lab to Filter

Orthophosphate Samples	
○	Field Filtered
○	Lab to Filter

PCB ONLY

SOXHLET ☐

NON SOXHLET ☐

ANALYSIS REQUESTED

E.Coli

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP / GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE
	DL-6913	12:58						X		X	11 X
	DL-6857	1:50									12
	DL-705	2:43									13

[2] Preservation Code

Courier Use Only
Total Number Of:
VIALS____
GLASS____
PLASTIC____
BACTERIA____
ENCORE____

Glassware in the fridge? Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Pace Analytical is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define) stormwater

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished by: (signature)	Date/Time:
[signature]	4/26 3:00
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments:

Detection Limit Requirements	
MA	
CT	
Other:	

Special Requirements	
☐	MA MCP Required
	MCP Certification Form Required
☐	CT RCP Required
	RCP Certification Form Required
☐	MA State DW Required
	PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity

Government	☐	Municipality	☐	MWRA	☐	WRTA	☐
Federal	☐	21 J	☐	School	☐		
City	☐	Brownfield	☐	MBTA	☐		

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

Lab Comments:

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RP230428090

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(603)622-0200

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Maine Certification # NH01005
Vermont State Certification # VT1005
www.nelsonanalytical.com

Client: Weston & Sampson:

28 April 2023

55 Walkers Brooks Drive Reading MA , 01867:

Enclosed are the results of analytical testing performed on the following samples:

Laboratory ID	Client Sample ID	Sample Location	Sample matrix	Date sampled	Date received
123042710.01	Tewksbury IDDE, Tewksbury, MA:	**DL-500**	Surface Water	27-Apr-23 10:00	27-Apr-23 16:30
123042710.02	Tewksbury IDDE, Tewksbury, MA:	**DL-691**	Surface Water	27-Apr-23 10:43	27-Apr-23 16:30
123042710.03	Tewksbury IDDE, Tewksbury, MA:	**DL-637**	Surface Water	27-Apr-23 09:49	27-Apr-23 16:30
123042710.04	Tewksbury IDDE, Tewksbury, MA:	**DL-7308**	Surface Water	27-Apr-23 10:52	27-Apr-23 16:30
123042710.05	Tewksbury IDDE, Tewksbury, MA:	**DL-483**	Surface Water	27-Apr-23 09:59	27-Apr-23 16:30
123042710.06	Tewksbury IDDE, Tewksbury, MA:	**DL-809**	Surface Water	27-Apr-23 09:28	27-Apr-23 16:30
123042710.07	Tewksbury IDDE, Tewksbury, MA:	**DL-499**	Surface Water	27-Apr-23 08:51	27-Apr-23 16:30
123042710.08	Tewksbury IDDE, Tewksbury, MA:	**DL-498**	Surface Water	27-Apr-23 08:46	27-Apr-23 16:30
123042710.09	Tewksbury IDDE, Tewksbury, MA:	**DL-687**	Surface Water	27-Apr-23 09:23	27-Apr-23 16:30
123042710.10	Tewksbury IDDE, Tewksbury, MA:	**CB-576**	Surface Water	27-Apr-23 10:31	27-Apr-23 16:30
123042710.11	Tewksbury IDDE, Tewksbury, MA:	**DL-897**	Surface Water	27-Apr-23 08:37	27-Apr-23 16:30

The results in this report relate only to the submitted samples. If you have any questions concerning this report, please feel free to contact us at (603)622-0200.

Approved By:

Kimberly Wright Laboratory Director

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230428090

Date Reported : 28-Apr-23 17:13

REPORT OF ANALYSIS

123042710.01

Tewksbury IDDE, Tewksbury, MA

DL-500

sampled Date: 27-Apr-2023 10:00

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/27/2023 17:00	SM 9223B	ED

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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Date Reported : 28-Apr-23 17:13

REPORT OF ANALYSIS

123042710.02

Tewksbury IDDE, Tewksbury, MA

DL-691

sampled Date: 27-Apr-2023 10:43

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**1**	1	mpn/100mL	04/27/2023 17:00	SM 9223B	ED

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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Date Reported : 28-Apr-23 17:13

REPORT OF ANALYSIS

123042710.03

Tewksbury IDDE, Tewksbury, MA

DL-637

sampled Date: 27-Apr-2023 09:49

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**13**	1	mpn/100mL	04/27/2023 17:00	SM 9223B	ED

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
Solid samples are reported on a dry weight basis unless noted otherwise.
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http://des.nh.gov/organization/divisions/water/dwgb/nhelap/
http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx
https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml
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RP230428090

Date Reported : 28-Apr-23 17:13

REPORT OF ANALYSIS

sampled Date: 27-Apr-2023 10:52

123042710.04

Tewksbury IDDE, Tewksbury, MA

DL-7308

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/27/2023 17:00	SM 9223B	ED

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230428090

Date Reported : 28-Apr-23 17:13

REPORT OF ANALYSIS

123042710.05

Tewksbury IDDE, Tewksbury, MA

DL-483

sampled Date: 27-Apr-2023 09:59

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**31**	1	mpn/100mL	04/27/2023 17:00	SM 9223B	ED

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230428090

Date Reported : 28-Apr-23 17:13

REPORT OF ANALYSIS

123042710.06

Tewksbury IDDE, Tewksbury, MA

DL-809

sampled Date: 27-Apr-2023 09:28

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**1**	1	mpn/100mL	04/27/2023 17:00	SM 9223B	ED

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230428090

Date Reported : 28-Apr-23 17:13

REPORT OF ANALYSIS

123042710.07

Tewksbury IDDE, Tewksbury, MA

DL-499

sampled Date: 27-Apr-2023 08:51

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**3**	1	mpn/100mL	04/27/2023 17:00	SM 9223B	ED

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RP230428090

Date Reported : 28-Apr-23 17:13

REPORT OF ANALYSIS

123042710.08

Tewksbury IDDE, Tewksbury, MA

DL-498

sampled Date: 27-Apr-2023 08:46

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**4**	1	mpn/100mL	04/27/2023 17:00	SM 9223B	ED

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RP230428090

Date Reported : 28-Apr-23 17:13

REPORT OF ANALYSIS

sampled Date: 27-Apr-2023 09:23

123042710.09

Tewksbury IDDE, Tewksbury, MA

DL-687

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**10**	1	mpn/100mL	04/27/2023 17:00	SM 9223B	ED

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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Date Reported : 28-Apr-23 17:13

REPORT OF ANALYSIS

sampled Date: 27-Apr-2023 10:31

123042710.10

Tewksbury IDDE, Tewksbury, MA

CB-576

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**16**	1	mpn/100mL	04/27/2023 17:00	SM 9223B	ED

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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Date Reported : 28-Apr-23 17:13

REPORT OF ANALYSIS

123042710.11

Tewksbury IDDE, Tewksbury, MA

DL-897

sampled Date: 27-Apr-2023 08:37

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	04/27/2023 17:00	SM 9223B	ED

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12304-2710 1-11

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Doc # 381 Rev 5_07/13/2021

39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Page ____ of ____

Company Name:	Weston & Sampson
Address:	55 Walkers Brook Dr. Reading
Phone:	978-977-8969
Project Name:	Lewis Bay IDDE
Project Location:	Lewis Bay MA
Project Number:	
Project Manager:	Meg Miller
Pace Quote Name/Number:	
Invoice Recipient:	-
Sampled By:	Andy Gaughan

Requested Turnaround Time			
7-Day	☐	10-Day	☐
PFAS 10-Day (std)	☐	Due Date:	

Rush-Approval Required			
1-Day	☐	3-Day	☐
2-Day	☐	4-Day	☐

Data Delivery			
Format:	PDF ☒	EXCEL	☐
Other:			
CLP Like Data Pkg Required:	☐		
Email To:	andrew.gaughan@wseinc.com		
Fax To #:			

Dissolved Metals Samples	
○	Field Filtered
○	Lab to Filter

Orthophosphate Samples	
○	Field Filtered
○	Lab to Filter

PCB ONLY

SOXHLET ☐

NON SOXHLET ☐

ANALYSIS REQUESTED

E.Coli

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE
1	DL-500	10:00	4/27		O				X	X	
2	DL-641	10:43									
3	DL-637	9:49									
4	DL-7308	10:52									
5	DL-483	9:59									
6	DL-809	9:28									
7	DL-499	8:51									
8	DL-498	8:46									
9	DL-687	9:23									
10	GB-576	10:31									
	DL-497	8:37									

Relinquished by: (signature) — Date/Time: 4/27/23 3:30PM
Received by: (signature) — Date/Time:

Relinquished by: (signature) — Date/Time:
Received by: (signature) — Date/Time: 4/27/23 1630

Relinquished by: (signature) — Date/Time:
Received by: (signature) — Date/Time:

Relinquished by: (signature) — Date/Time:
Received by: (signature) — Date/Time:

Client Comments: stormwater

[2] Preservation Code
Courier Use Only
Total Number Of:
VIALS____
GLASS____
PLASTIC____
BACTERIA____
ENCORE____

Glassware in the fridge? Y / N
Glassware in freezer? Y / N
Prepackaged Cooler? Y / N
*Pace Analytical is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Detection Limit Requirements		Special Requirements	
MA		☐	MA MCP Required
			MCP Certification Form Required
		☐	CT RCP Required
CT			RCP Certification Form Required
		☐	MA State DW Required
Other:		PWSID #	

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity

Government	☐	Municipality	☐	MWRA	☐	WRTA	☐
Federal	☐	21 J	☐	School	☐		
City	☐	Brownfield	☐	MBTA	☐		

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

Lab Comments:

4/27/23 1630 8.5
Date Rec'd: Time Rec'd: Temp Rec'd:
Rec'd by: MS Location: PUTS
Cooler: (Y) N Ice: (Y) N
Chlorine: Pos Neg NA
Bottle: TC MIN 40ML HCL LC OTHER

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. Th Chain of Custody is a legal document that must be complete and accurate and is used to determine wh analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pa Analytical values your partnership on each project and will try to assist with missing information, but w not be held accountable.

RP230428090

RP230509107

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Client: Weston & Sampson:

09 May 2023

55 Walkers Brooks Drive Reading MA , 01867:

Enclosed are the results of analytical testing performed on the following samples:

Laboratory ID	Client Sample ID	Sample Location	Sample matrix	Date sampled	Date received
123050794.01	Tewksbury IDDE, Tewksbury, MA:	**DL-1201**	Surface Water	08-May-23 10:00	08-May-23 16:10
123050794.02	Tewksbury IDDE, Tewksbury, MA:	**DL-1189**	Surface Water	08-May-23 10:13	08-May-23 16:10
123050794.03	Tewksbury IDDE, Tewksbury, MA:	**DL-1181**	Surface Water	08-May-23 09:45	08-May-23 16:10
123050794.04	Tewksbury IDDE, Tewksbury, MA:	**DL-1329**	Surface Water	08-May-23 11:37	08-May-23 16:10
123050794.05	Tewksbury IDDE, Tewksbury, MA:	**CB-734**	Surface Water	08-May-23 12:34	08-May-23 16:10
123050794.06	Tewksbury IDDE, Tewksbury, MA:	**DL-1182**	Surface Water	08-May-23 09:30	08-May-23 16:10
123050794.07	Tewksbury IDDE, Tewksbury, MA:	**DL-1397**	Surface Water	08-May-23 14:25	08-May-23 16:10
123050794.08	Tewksbury IDDE, Tewksbury, MA:	**DL-1257**	Surface Water	08-May-23 13:57	08-May-23 16:10
123050794.09	Tewksbury IDDE, Tewksbury, MA:	**DL-980**	Surface Water	08-May-23 12:00	08-May-23 16:10
123050794.10	Tewksbury IDDE, Tewksbury, MA:	**DL-1356**	Surface Water	08-May-23 14:11	08-May-23 16:10
123050794.11	Tewksbury IDDE, Tewksbury, MA:	**DL-1398**	Surface Water	08-May-23 14:27	08-May-23 16:10
123050794.12	Tewksbury IDDE, Tewksbury, MA:	**DL-1192**	Surface Water	08-May-23 10:30	08-May-23 16:10

The results in this report relate only to the submitted samples. If you have any questions concerning this report, please feel free to contact us at (603)622-0200.

Approved By:

Kimberly Wright Laboratory Director

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230509107

Date Reported : 09-May-23 17:10

REPORT OF ANALYSIS

123050794.01

Tewksbury IDDE, Tewksbury, MA

DL-1201

sampled Date: 08-May-2023 10:00

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**161**	1	mpn/100mL	05/08/2023 16:55	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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http://des.nh.gov/organization/divisions/water/dwgb/nhelap/
http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx
https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml
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RP230509107

Date Reported : 09-May-23 17:10

REPORT OF ANALYSIS

123050794.02

Tewksbury IDDE, Tewksbury, MA

DL-1189

sampled Date: 08-May-2023 10:13

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**2**	1	mpn/100mL	05/08/2023 16:55	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230509107

Date Reported : 09-May-23 17:10

REPORT OF ANALYSIS

sampled Date: 08-May-2023 09:45

123050794.03

Tewksbury IDDE, Tewksbury, MA

DL-1181

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**2**	1	mpn/100mL	05/08/2023 16:55	SM 9223B	KF

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Date Reported : 09-May-23 17:10

REPORT OF ANALYSIS

123050794.04

Tewksbury IDDE, Tewksbury, MA

DL-1329

sampled Date: 08-May-2023 11:37

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**1**	1	mpn/100mL	05/08/2023 16:55	SM 9223B	KF

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Date Reported : 09-May-23 17:10

REPORT OF ANALYSIS

sampled Date: 08-May-2023 12:34

123050794.05

Tewksbury IDDE, Tewksbury, MA

CB-734

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	05/08/2023 16:55	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230509107

Date Reported : 09-May-23 17:10

REPORT OF ANALYSIS

123050794.06

Tewksbury IDDE, Tewksbury, MA

DL-1182

sampled Date: 08-May-2023 09:30

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**1**	1	mpn/100mL	05/08/2023 16:55	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230509107

Date Reported : 09-May-23 17:10

REPORT OF ANALYSIS

123050794.07

Tewksbury IDDE, Tewksbury, MA

DL-1397

sampled Date: 08-May-2023 02:25

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**28**	1	mpn/100mL	05/08/2023 16:55	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230509107

Date Reported : 09-May-23 17:10

REPORT OF ANALYSIS

123050794.08

Tewksbury IDDE, Tewksbury, MA

DL-1257

sampled Date: 08-May-2023 01:57

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**7**	1	mpn/100mL	05/08/2023 16:55	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230509107

Date Reported : 09-May-23 17:10

REPORT OF ANALYSIS

123050794.09

Tewksbury IDDE, Tewksbury, MA

DL-980

sampled Date: 08-May-2023 12:00

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	05/08/2023 16:55	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230509107

Date Reported : 09-May-23 17:10

REPORT OF ANALYSIS

123050794.10

Tewksbury IDDE, Tewksbury, MA

DL-1356

sampled Date: 08-May-2023 02:11

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	05/08/2023 16:55	SM 9223B	KF

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Date Reported : 09-May-23 17:10

REPORT OF ANALYSIS

sampled Date: 08-May-2023 02:27

123050794.11

Tewksbury IDDE, Tewksbury, MA

DL-1398

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**7**	1	mpn/100mL	05/08/2023 16:55	SM 9223B	KF

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RP230509107

Date Reported : 09-May-23 17:10

REPORT OF ANALYSIS

sampled Date: 08-May-2023 10:30

123050794.12

Tewksbury IDDE, Tewksbury, MA

DL-1192

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	05/08/2023 16:55	SM 9223B	KF

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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12305-794

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Lab ID
5/8/23 1610 5.4
Date Rec'd Time Rec'd Temp Rec'd
Rec'd by MAS Location
Cooler Y N Ice Y N
Chlorine Pos Neg N/A
Bottles: 40ml HCL 40ml MeOH 4oz Glass
1L Amber HCL MIN 250ml FC
Other 12 TCS

ECO

Turnaround Requirements

Please inquire about rush service. If we are able to meet your needs, we will not charge a rush fee. Please call for prior approval.

Same day [ ]
One Day [ ]
Two Day [ ]
Three Day [ ]
Normal [X]

Project Information

Project # TEWKSBURY IDDE
Project Name:
Town/Site: TEWKSBURY MA
Sampler: Andy Gaughan
Company: Weston & Sampson

Project Manager: Meg Miller
Report to: Andy Gaughan
Invoice to: "
Phone: 978-532-8469
E-Mail: gaughan_andrew@wse.com

Receipt Conditions (Lab Use Only):
Laboratory Supplied Containers? ___Yes ___No
Containers Intact/Properly Labeled? ___Yes ___No
Were samples delivered on ice? ___Yes ___No
Brought directly from field? ___Yes ___No
Sample storage requirements:
ROOM TEMP / FREEZER / REFRIGERATOR

Detection Requirements

Please specify any detection requirements:
E.Coli Count

Sample Matrix Key

Please indicate the sample matrix in the sample matrix column by using the respective codes below.
S Soil DW Drinking Water GW Groundwater WW Wastewater SW Surface Water O Oil X Other (specify) Stormwater

Project Requirements: Quote #
NH Odd Fund: Y / N MCP: Y / N
Notes:

Sample Information

Sample ID	Collection Date/Time	Sample Matrix (see key)	# of Containers	E.Coli	Laboratory ID
DL-1201	5/8 10:00	O	1	X	1
DL-1184	10:13				2
DL-1181	9:45				3
DL-1329	11:37				4
CB-734	12:34				5
DL-1182	9:30				6
DL-1347	2:25				7
DL-1257	1:57				8
DL-980	12:00				9
DL-1356	2:11				10
DL-1398	2:27				11
DL-1192	10:30				12

Relinquished by: Andrew Gaughan	Date: 5/8/23 Time: 3:30	Received by:	5/8/23 1610
Relinquished by:	Date: Time:	Received by:	
Relinquished by:	Date: Time:	Received by:	

NOTES

RP23050910

RP230510066

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Client: Weston & Sampson:

10 May 2023

55 Walkers Brooks Drive Reading MA , 01867:

Enclosed are the results of analytical testing performed on the following samples:

Laboratory ID	Client Sample ID	Sample Location	Sample matrix	Date sampled	Date received
123050894.01	Tewksbury IDDE, Tewksbury, MA:	**DL-1619**	Surface Water	09-May-23 11:35	09-May-23 16:05
123050894.02	Tewksbury IDDE, Tewksbury, MA:	**DL-1636**	Surface Water	09-May-23 10:17	09-May-23 16:05
123050894.03	Tewksbury IDDE, Tewksbury, MA:	**DL-907**	Surface Water	09-May-23 14:36	09-May-23 16:05
123050894.04	Tewksbury IDDE, Tewksbury, MA:	**MH-193**	Surface Water	09-May-23 08:29	09-May-23 16:05
123050894.05	Tewksbury IDDE, Tewksbury, MA:	**DL-995**	Surface Water	09-May-23 09:34	09-May-23 16:05
123050894.06	Tewksbury IDDE, Tewksbury, MA:	**DL-1679**	Surface Water	09-May-23 11:50	09-May-23 16:05

The results in this report relate only to the submitted samples. If you have any questions concerning this report, please feel free to contact us at (603)622-0200.

Approved By:

Kimberly Wright Laboratory Director

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230510066

Date Reported : 10-May-23 14:31

REPORT OF ANALYSIS

sampled Date: 09-May-2023 11:35

123050894.01

Tewksbury IDDE, Tewksbury, MA

DL-1619

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	05/09/2023 16:15	SM 9223B	LS

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230510066

Date Reported : 10-May-23 14:31

REPORT OF ANALYSIS

123050894.02

Tewksbury IDDE, Tewksbury, MA

DL-1636

sampled Date: 09-May-2023 10:17

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**44**	1	mpn/100mL	05/09/2023 16:15	SM 9223B	LS

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Date Reported : 10-May-23 14:31

REPORT OF ANALYSIS

sampled Date: 09-May-2023 02:36

123050894.03

Tewksbury IDDE, Tewksbury, MA

DL-907

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**119**	1	mpn/100mL	05/09/2023 16:15	SM 9223B	LS

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Date Reported : 10-May-23 14:31

REPORT OF ANALYSIS

sampled Date: 09-May-2023 08:29

123050894.04

Tewksbury IDDE, Tewksbury, MA

MH-193

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	05/09/2023 16:15	SM 9223B	LS

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Date Reported : 10-May-23 14:31

REPORT OF ANALYSIS

123050894.05

Tewksbury IDDE, Tewksbury, MA

DL-995

sampled Date: 09-May-2023 09:34

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	05/09/2023 16:15	SM 9223B	LS

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Date Reported : 10-May-23 14:31

REPORT OF ANALYSIS

sampled Date: 09-May-2023 11:50

123050894.06

Tewksbury IDDE, Tewksbury, MA

DL-1679

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**1**	1	mpn/100mL	05/09/2023 16:15	SM 9223B	LS

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12305-894 1-6

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ECQ

5/9/23 1605 4.7
Date Rec'd Time Rec'd Temp Rec'd
Rec'd by mas Location pumas
Cooler Y N Ice Y N
Chlorine Pos NEG N/A
Bottles 40ml HCL 40ml MeOH 4oz Glass
1L Amber HCL MIN 250ml LC
Other @ TC

Turnaround Requirements

Please inquire about rush service. If we are able to meet your needs, we will not charge a rush fee. Please call for prior approval.

Same day [ ]
One Day [ ]
Two Day [ ]
Three Day [ ]
Normal [✓]

Project Information

Project #:
Project Name: Tewksbury, MA IDDE
Town/Site: Tewksbury, MA
Sampler: Andy Gaughan
Company: Weston & Sampson

Project Manager:
Report to:
Invoice to: Andy Gaughan
Phone: 978-516-8969
E-Mail: andrew.gaughan@wseinc.com

Receipt Conditions (Lab Use Only):
Laboratory Supplied Containers? ___Yes ___No
Containers Intact/Properly Labeled? ___Yes ___No
Were samples delivered on ice? ___Yes ___No
Brought directly from field? ___Yes ___No
Sample storage requirements:
ROOM TEMP / FREEZER / REFRIGERATOR

Detection Requirements

Please specify any detection requirements:

Sample Matrix Key

Please indicate the sample matrix in the sample matrix column by using the respective codes below:

S Soil DW Drinking Water GW Groundwater WW Wastewater SW Surface Water O Oil X Other (specify): stormwater

Project Requirements: Quote #:
NH Odd Fund: Y / N MCP: Y / N
Notes:

Sample Information

Sample ID	Collection Date/Time	Sample Matrix (see key)	# of Containers	E. Coli	Laboratory ID
DL-1619	5/9 11:35	O	1	X	1
DL-1636	10:17			X	2
DL-907	2:36			X	3
MH-193	8:29			X	4
DL-995	9:34			X	5
DL-1679	11:50	O	1	X	6

Relinquished by: Date: 5/9/23 Time: 3:30 Received by:
Relinquished by: Date: Time: Received by:

NOTES

RP230510066

RP230516067

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Client: Weston & Sampson:

16 May 2023

55 Walkers Brooks Drive Reading MA , 01867:

Enclosed are the results of analytical testing performed on the following samples:

Laboratory ID	Client Sample ID	Sample Location	Sample matrix	Date sampled	Date received
123051017.01	Tewksbury IDDE, Tewksbury, MA:	**DL-1719**	Surface Water	10-May-23 08:41	10-May-23 16:15
123051017.02	Tewksbury IDDE, Tewksbury, MA:	**DL-6007**	Surface Water	10-May-23 11:03	10-May-23 16:15
123051017.03	Tewksbury IDDE, Tewksbury, MA:	**DL-6009**	Surface Water	10-May-23 11:11	10-May-23 16:15
123051017.04	Tewksbury IDDE, Tewksbury, MA:	**DL-2895**	Surface Water	10-May-23 10:30	10-May-23 16:15
123051017.05	Tewksbury IDDE, Tewksbury, MA:	**DL-6000**	Surface Water	10-May-23 10:47	10-May-23 16:15
123051017.06	Tewksbury IDDE, Tewksbury, MA:	**DL-1728**	Surface Water	10-May-23 09:05	10-May-23 16:15

The results in this report relate only to the submitted samples. If you have any questions concerning this report, please feel free to contact us at (603)622-0200.

Approved By:

Kimberly Wright Laboratory Director

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RP230516067

Date Reported : 16-May-23 17:12

REPORT OF ANALYSIS

sampled Date: 10-May-2023 08:41

123051017.01

Tewksbury IDDE, Tewksbury, MA

DL-1719

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**4**	1	mpn/100mL	05/10/2023 16:40	SM 9223B	LS

MBAS

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
Surfactants	<0.10	0.10	mg/L	05/11/2023 23:26	SM 5540C	SUB8

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RP230516067

Date Reported : 16-May-23 17:12

REPORT OF ANALYSIS

sampled Date: 10-May-2023 11:03

123051017.02

Tewksbury IDDE, Tewksbury, MA

DL-6007

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	05/10/2023 16:40	SM 9223B	LS

MBAS

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
Surfactants	0.13	0.05	mg/L	05/11/2023 23:27	SM 5540C	SUB8

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Date Reported : 16-May-23 17:12

REPORT OF ANALYSIS

sampled Date: 10-May-2023 11:11

123051017.03

Tewksbury IDDE, Tewksbury, MA

DL-6009

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**3**	1	mpn/100mL	05/10/2023 16:40	SM 9223B	LS

MBAS

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
Surfactants	<0.05	0.05	mg/L	05/11/2023 23:29	SM 5540C	SUB8

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Date Reported : 16-May-23 17:12

REPORT OF ANALYSIS

sampled Date: 10-May-2023 10:30

123051017.04

Tewksbury IDDE, Tewksbury, MA

DL-2895

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	05/10/2023 16:40	SM 9223B	LS

MBAS

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
Surfactants	0.10	0.05	mg/L	05/11/2023 23:32	SM 5540C	SUB8

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
Solid samples are reported on a dry weight basis unless noted otherwise.
Subcontract Laboratories: SUB2: Nelson Analytical Maine NH2018 SUB 7: Nelson Analytical EAI Div. NH1007, SUB4:NH2073, SUB5:NH2530, SUB8:NH2136, SUB9:NH2557
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RP230516067

Date Reported : 16-May-23 17:12

REPORT OF ANALYSIS

sampled Date: 10-May-2023 10:47

123051017.05

Tewksbury IDDE, Tewksbury, MA

DL-6000

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	05/10/2023 16:40	SM 9223B	LS

MBAS

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
Surfactants	<0.10	0.10	mg/L	05/11/2023 23:32	SM 5540C	SUB8

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RP230516067

Date Reported : 16-May-23 17:12

REPORT OF ANALYSIS

sampled Date: 10-May-2023 09:05

123051017.06

Tewksbury IDDE, Tewksbury, MA

DL-1728

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	05/10/2023 16:40	SM 9223B	LS

MBAS

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
Surfactants	0.13	0.05	mg/L	05/11/2023 23:33	SM 5540C	SUB8

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230516067

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Fax:(603)622-0200
E-Mail: info@nelsonanalytical.com

Lab ID # 12305-10 T 1.6

5/10/23 Date Rec'd | 1615 Time Rec'd | Temp Rec'd 8.4
Rec'd by Gem | Location GV TS
Cooler (Y) N | Ice (Y) N
Chlorine Pos Neg N/A
Bottles 40ml HCL 40ml MeOH 4oz Glass
1L Amber HCL MIN 250ml LC
Other 6-TC 6-500ml Plastic bottles

Turnaround Requirements

Please inquire about rush service. If we are able to meet your needs, we will not charge a rush fee. Please call for prior approval.

Same day [ ]
One Day [ ]
Two Day [ ]
Three Day [ ]
Normal [X]

Project Information

Project #:
Project Name: Tewksbury IDDE
Town/Site: Tewksbury MA
Sampler: Andy Gaughan
Company: Weston & Sampson

Project Manager: Meg Miller
Report to:
Invoice to: Andy Gaughan
Phone: 978-513-8969
E-Mail: andrew.gaughan@wseinc.com

Receipt Conditions (Lab Use Only):
Laboratory Supplied Containers? ___Yes ___No
Containers Intact/Properly Labeled? ___Yes ___No
Were samples delivered on ice? ___Yes ___No
Brought directly from field? ___Yes ___No

Sample storage requirements:
ROOM TEMP / FREEZER / REFRIGERATOR

Detection Requirements

Please specify any detection requirements:

Sample Matrix Key

Please indicate the sample matrix in the sample matrix column by using the respective codes below:

S Soil DW Drinking Water GW Groundwater WW Wastewater SW Surface Water O Oil X Other (specify): Stormwater

Project Requirements: Quote #
NH Odd Fund Y / N MCP Y / N
Notes

Sample Information

Sample ID	Collection Date/Time	Sample Matrix (see key)	# of Containers	E.Coli	Surfactants	Laboratory ID
DL-1719	8:41		2	X	X	1
DL-6007	11:03		2			2
DL-6009	11:11		2			3
DL-2895	10:30		2			4
DL-6000	10:47		2			5
DL-1728	9:05		2			6

Relinquished by: [signature] Date: 5/10/23 Time: 3:30PM
Received by: Thomas Stitt 1526

Relinquished by: Date: Time:
Received by: [signature] 5/10/23

Relinquished by: Date: Time:
Received by:

NOTES
Samples picked up from unattended location Per Andy Gaughan 5/10/23 1500

RP230512062

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Client: Weston & Sampson:

12 May 2023

55 Walkers Brooks Drive Reading MA , 01867:

Enclosed are the results of analytical testing performed on the following samples:

Laboratory ID	Client Sample ID	Sample Location	Sample matrix	Date sampled	Date received
123051184.01	Tewksbury IDDE, Tewksbury, MA:	**DL-1800**	Surface Water	11-May-23 14:50	11-May-23 17:38
123051184.02	Tewksbury IDDE, Tewksbury, MA:	**DL-256**	Surface Water	11-May-23 11:50	11-May-23 17:38
123051184.03	Tewksbury IDDE, Tewksbury, MA:	**DL-6753**	Surface Water	11-May-23 11:24	11-May-23 17:38
123051184.04	Tewksbury IDDE, Tewksbury, MA:	**DL-97**	Surface Water	11-May-23 10:19	11-May-23 17:38
123051184.05	Tewksbury IDDE, Tewksbury, MA:	**DL-106**	Surface Water	11-May-23 11:57	11-May-23 17:38
123051184.06	Tewksbury IDDE, Tewksbury, MA:	**DL-319**	Surface Water	11-May-23 11:07	11-May-23 17:38
123051184.07	Tewksbury IDDE, Tewksbury, MA:	**DL-235**	Surface Water	11-May-23 09:07	11-May-23 17:38
123051184.08	Tewksbury IDDE, Tewksbury, MA:	**DL-79**	Surface Water	11-May-23 09:24	11-May-23 17:38
123051184.09	Tewksbury IDDE, Tewksbury, MA:	**DL-1802**	Surface Water	11-May-23 14:42	11-May-23 17:38

The results in this report relate only to the submitted samples. If you have any questions concerning this report, please feel free to contact us at (603)622-0200.

Approved By:

Kimberly Wright Laboratory Director

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230512062

Date Reported : 12-May-23 16:11

REPORT OF ANALYSIS

sampled Date: 11-May-2023 02:50

123051184.01

Tewksbury IDDE, Tewksbury, MA

DL-1800

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	05/11/2023 16:50	SM 9223B	ED

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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Date Reported : 12-May-23 16:11

REPORT OF ANALYSIS

sampled Date: 11-May-2023 11:50

123051184.02

Tewksbury IDDE, Tewksbury, MA

DL-256

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**4**	1	mpn/100mL	05/11/2023 16:50	SM 9223B	ED

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Date Reported : 12-May-23 16:11

REPORT OF ANALYSIS

sampled Date: 11-May-2023 11:24

123051184.03

Tewksbury IDDE, Tewksbury, MA

DL-6753

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**1**	1	mpn/100mL	05/11/2023 16:50	SM 9223B	ED

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RP230512062

Date Reported : 12-May-23 16:11

REPORT OF ANALYSIS

sampled Date: 11-May-2023 10:19

123051184.04

Tewksbury IDDE, Tewksbury, MA

DL-97

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**4**	1	mpn/100mL	05/11/2023 16:50	SM 9223B	ED

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Date Reported : 12-May-23 16:11

REPORT OF ANALYSIS

sampled Date: 11-May-2023 11:57

123051184.05

Tewksbury IDDE, Tewksbury, MA

DL-106

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**1**	1	mpn/100mL	05/11/2023 16:50	SM 9223B	ED

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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RP230512062

Date Reported : 12-May-23 16:11

REPORT OF ANALYSIS

sampled Date: 11-May-2023 11:07

123051184.06

Tewksbury IDDE, Tewksbury, MA

DL-319

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	05/11/2023 16:50	SM 9223B	ED

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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Date Reported : 12-May-23 16:11

REPORT OF ANALYSIS

sampled Date: 11-May-2023 09:07

123051184.07

Tewksbury IDDE, Tewksbury, MA

DL-235

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**1**	1	mpn/100mL	05/11/2023 16:50	SM 9223B	ED

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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Date Reported : 12-May-23 16:11

REPORT OF ANALYSIS

sampled Date: 11-May-2023 09:24

123051184.08

Tewksbury IDDE, Tewksbury, MA

DL-79

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	05/11/2023 16:50	SM 9223B	ED

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
Solid samples are reported on a dry weight basis unless noted otherwise.
Subcontract Laboratories: SUB2: Nelson Analytical Maine NH2018 SUB 7: Nelson Analytical EAI Div. NH1007, SUB4:NH2073, SUB5:NH2530, SUB8:NH2136, SUB9:NH2557
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/
http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx
https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml
https://www.mass.gov/certified-laboratories

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Manchester, NH 03109
(603)622-0200

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RP230512062

Date Reported : 12-May-23 16:11

REPORT OF ANALYSIS

sampled Date: 11-May-2023 02:42

123051184.09

Tewksbury IDDE, Tewksbury, MA

DL-1802

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	05/11/2023 16:50	SM 9223B	ED

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
Solid samples are reported on a dry weight basis unless noted otherwise.
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http://des.nh.gov/organization/divisions/water/dwgb/nhelap/
http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx
https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml
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12305-1184 1-9

Lab ID #

NELSON ANALYTICAL LAB

ECD

490 East Industrial Park Drive
Manchester, NH 03109
Phone:(603)783-9097
Fax:(603)622-0200
E-Mail: info@nelsonanalytical.com

5/11/23 1410 9?.

Date Rec'd: meg Time Rec'd: Temp Rec'd: pumas
Rec'd by: Location:
Cooler: Y N Ice: Y N
Chlorine: Pos Neg N/A
Bottles: 40ml HCL 40ml MeOH 4oz Glass
1L Amber HCL MIN 250ml LC 9 TC
Other

Turnaround Requirements

Please inquire about rush service. If we are able to meet your needs, we will not charge a rush fee. Please call for prior approval.

Same day [ ]
One Day [ ]
Two Day [ ]
Three Day [ ]
Normal [ ]

Project Information

Project #:
Project Name: TEWKSBURY IDDE
Town/Site: TEWKSBURY MA
Sampler: Andy Gaughan
Company: weston & sampson

Project Manager: Meg Miller
Report to: Andy Gaughan
Invoice to: "
Phone: 978-516-8969
E-Mail: gaughan.andrew@wse.inc.com

Receipt Conditions (Lab Use Only):
Laboratory Supplied Containers? ___Yes ___No
Containers Intact/Properly Labeled? ___Yes ___No
Were samples delivered on ice? ___Yes ___No
Brought directly from field? ___Yes ___No
Sample storage requirements:
ROOM TEMP / FREEZER / REFRIGERATOR

Detection Requirements

Please specify any detection requirements:

Sample Matrix Key

Please indicate the sample matrix in the sample matrix column by using the respective codes below:

S Soil DW Drinking Water GW Groundwater WW Wastewater SW Surface Water O Oil X Other (specify): Stormwater

Project Requirements: Quote #
NH Odd Fund: Y / N MCP: Y / N
Notes:

Sample Information

Sample ID	Collection Date/Time	Sample Matrix (see key)	# of Containers	Laboratory ID
DL-1800	5/11 2:50	O	1	1
DL-256	11:50			2
DL-6753	11:24			3
DL-97	10:19			4
DL-106	11:57			5
DL-319	11:07			6
DL-235	9:07			7
DL-79	9:24			8
DL-1802	2:42			9

Relinquished by:	Date: Time:	Received by:	NOTES
Relinquished by:	Date: Time:	Received by:	
Relinquished by:	Date: Time:	Received by:	

RP230512062

RP230517033

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(603)622-0200

NH ELAP Accreditation #NH1005
Maine Certification # NH01005
Vermont State Certification # VT1005
www.nelsonanalytical.com

Client: Weston & Sampson:

17 May 2023

55 Walkers Brooks Drive Reading MA , 01867:

Enclosed are the results of analytical testing performed on the following samples:

Laboratory ID	Client Sample ID	Sample Location	Sample matrix	Date sampled	Date received
123051604.01	Tewksbury IDDE, Tewksbury, MA:	**DL-1831**	Surface Water	16-May-23 11:31	16-May-23 15:45
123051604.02	Tewksbury IDDE, Tewksbury, MA:	**MH-672**	Surface Water	16-May-23 10:13	16-May-23 15:45

The results in this report relate only to the submitted samples. If you have any questions concerning this report, please feel free to contact us at (603)622-0200.

Approved By:

Kimberly Wright Laboratory Director

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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Subcontract Laboratories: SUB2: Nelson Analytical Maine NH2018 SUB 7: Nelson Analytical EAI Div. NH1007, SUB4:NH2073, SUB5:NH2530, SUB8:NH2136, SUB9:NH2557
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/
http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx
https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml
https://www.mass.gov/certified-laboratories

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RP230517033

Date Reported : 17-May-23 12:07

REPORT OF ANALYSIS

123051604.01

Tewksbury IDDE, Tewksbury, MA

DL-1831

sampled Date: 16-May-2023 11:31

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	05/16/2023 16:30	SM 9223B	LS

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx
https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml
https://www.mass.gov/certified-laboratories

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Vermont State Certifcation #VT1005
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RP230517033

Date Reported : 17-May-23 12:07

REPORT OF ANALYSIS

sampled Date: 16-May-2023 10:13

123051604.02

Tewksbury IDDE, Tewksbury, MA

MH-672

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	05/16/2023 16:30	SM 9223B	LS

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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http://des.nh.gov/organization/divisions/water/dwgb/nhelap/
http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx
https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml
https://www.mass.gov/certified-laboratories

12305-1604

RP230517033

NELSON ANALYTICAL LAB

Lab ID#

5/10/23 1545 8.2

490 East Industrial Park Drive
Manchester, NH 03109
Phone:(603)783-9097
Fax:(603)622-0200
E-Mail: info@nelsonanalytical.com

Date Rec'd: 5/10/23 Time Rec'd: 1545 Temp Rec'd: 8.2
Rec'd by: [illegible] Location: [illegible]
Cooler: Y / N Ice: Y / N
Chlorine: Pos Neg N/A
Bottles: 40ml HCL 40ml MeOH 4oz Glass
1L Amber HCL MIN 250ml DI
Other: 2 TC PUTS

Turnaround Requirements

Please inquire about rush service. If we are able to meet your needs, we will not charge a rush fee. Please call for prior approval.

Same day [ ]
One Day [ ]
Two Day [ ]
Three Day [ ]
Normal [ ]

Project Information

Project #: TEWKSBURY IDDE
Project Name:
Town/Site:
Sampler:
Company: Weston & Sampson

Project Manager:
Report to: Andy Gaughan
Invoice to:
Phone: 978-516-4969
E-Mail: gaughan.andrew@wscinc.com

Receipt Conditions (Lab Use Only):
Laboratory Supplied Containers? Yes No
Containers Intact/Properly Labeled? Yes No
Were samples delivered on ice? Yes No
Brought directly from field? Yes No
Sample storage requirements:
ROOM TEMP / FREEZER / REFRIGERATOR

Detection Requirements

Please specify any detection requirements:

Sample Matrix Key

Please indicate the sample matrix in the sample matrix column by using the respective codes below.

S Soil DW Drinking Water GW Groundwater WW Wastewater SW Surface Water O Oil X Other (specify):

Project Requirements: Quote #:
NH Odd Fund: Y / N MCP: Y / N
Notes:

Sample Information

Sample ID	Collection Date/Time	Sample Matrix (see key)	# of Containers	E.coli														Laboratory ID
DL-1831	11:31		1	X														1
MH-672	10:13		1	X														2

Relinquished by: Andrew Gaughan	Date: 5/10/23 Time: 2:25	Received by: Thomas Silk	NOTES
Relinquished by:	Date: Time:	Received by: 5/10/23	
Relinquished by:	Date: Time:	Received by: 1545	

RP230518051

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Manchester, NH 03109
(603)622-0200

NH ELAP Accreditation #NH1005
Maine Certification # NH01005
Vermont State Certification # VT1005
www.nelsonanalytical.com

Client: Weston & Sampson:

18 May 2023

55 Walkers Brooks Drive Reading MA , 01867:

Enclosed are the results of analytical testing performed on the following samples:

Laboratory ID	Client Sample ID	Sample Location	Sample matrix	Date sampled	Date received
123051720.01	Tewksbury IDDE, Tewksbury, MA:	**DL-2270**	Surface Water	17-May-23 07:57	17-May-23 16:00
123051720.02	Tewksbury IDDE, Tewksbury, MA:	**DL-1104**	Surface Water	17-May-23 12:58	17-May-23 16:00
123051720.03	Tewksbury IDDE, Tewksbury, MA:	**DL-2063**	Surface Water	17-May-23 11:19	17-May-23 16:00
123051720.04	Tewksbury IDDE, Tewksbury, MA:	**DL-2139**	Surface Water	17-May-23 11:22	17-May-23 16:00

The results in this report relate only to the submitted samples. If you have any questions concerning this report, please feel free to contact us at (603)622-0200.

Approved By:

Kimberly Wright Laboratory Director

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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http://des.nh.gov/organization/divisions/water/dwgb/nhelap/
http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx
https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml
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RP230518051

Date Reported : 18-May-23 15:26

REPORT OF ANALYSIS

sampled Date: 17-May-2023 07:57

123051720.01

Tewksbury IDDE, Tewksbury, MA

DL-2270

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**76**	1	mpn/100mL	05/17/2023 16:30	SM 9223B	LS

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
Solid samples are reported on a dry weight basis unless noted otherwise.
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http://des.nh.gov/organization/divisions/water/dwgb/nhelap/
http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx
https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml
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RP230518051

Date Reported : 18-May-23 15:26

REPORT OF ANALYSIS

sampled Date: 17-May-2023 12:58

123051720.02

Tewksbury IDDE, Tewksbury, MA

DL-1104

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**42**	1	mpn/100mL	05/17/2023 16:30	SM 9223B	LS

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
Solid samples are reported on a dry weight basis unless noted otherwise.
Subcontract Laboratories: SUB2: Nelson Analytical Maine NH2018 SUB 7: Nelson Analytical EAI Div. NH1007, SUB4:NH2073, SUB5:NH2530, SUB8:NH2136, SUB9:NH2557
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/
http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx
https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml
https://www.mass.gov/certified-laboratories

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Vermont State Certifcation #VT1005
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RP230518051

Date Reported : 18-May-23 15:26

REPORT OF ANALYSIS

123051720.03

Tewksbury IDDE, Tewksbury, MA

DL-2063

sampled Date: 17-May-2023 11:19

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	**1**	1	mpn/100mL	05/17/2023 16:30	SM 9223B	LS

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx
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https://www.mass.gov/certified-laboratories

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RP230518051

Date Reported : 18-May-23 15:26

REPORT OF ANALYSIS

sampled Date: 17-May-2023 11:22

123051720.04

Tewksbury IDDE, Tewksbury, MA

DL-2139

E.Coli Water

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	05/17/2023 16:30	SM 9223B	LS

Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, the Vermont Laboratory Accreditation Program, the Massachusetts Laboratory Certification Program and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples may be analyzed the same day they are received. #-Sample(s) received at laboratory do not meet method specified temperature criteria.
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http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx
https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml
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12305-1720 1-4

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Manchester, NH 03109
Phone:(603)783-9097
Fax:(603)622-0200
E-Mail: info@nelsonanalytical.com

Lab ID

5/17/23 1600 8-8.5

Date Rec'd Time Rec'd Temp Rec'd
Rec'd by Location
Cooler Y N Ice Y N
Chlorine Pos Neg N/A
Bottles 40ml HCL 40ml MeOH 4oz Glass
1L Amber HCL MIN 250ml LC
Other

pu 73
4 TC

Turnaround Requirements

Please inquire about rush service. If we are able to meet your needs, we will not charge a rush fee. Please call for prior approval.

Same day [ ]
One Day [ ]
Two Day [ ]
Three Day [ ]
Normal [✓]

Project Information

Project #
Project Name: Tewksbury IDPE
Town/Site: Tewksbury, MA
Sampler: Andy Gaughan
Company: Weston & Sampson

Project Manager: Meg Miller
Report to: Andy Gaughan
Invoice to: Andy Gaughan
Phone: 978-516-8469
E-Mail: gaughan.andrew@wseinc.com

Receipt Conditions (Lab Use Only):
Laboratory Supplied Containers? ___Yes ___No
Containers Intact/Properly Labeled? ___Yes ___No
Were samples delivered on ice? ___Yes ___No
Brought directly from field? ___Yes ___No
Sample storage requirements:
ROOM TEMP / FREEZER / REFRIGERATOR

Detection Requirements

Please specify any detection requirements:

Sample Matrix Key

Please indicate the sample matrix in the sample matrix column by using the respective codes below:

S Soil DW Drinking Water GW Groundwater WW Wastewater SW Surface Water O Oil X Other (specify) Stormwater

Project Requirements: Quote #
NH Odd Fund: Y / N MCP: Y / N
Notes:

Sample Information

Sample ID	Collection Date/Time	Sample Matrix (see key)	# of Containers	E. Coli	Laboratory ID
DL-2270	7:57		1	1	1
DL-1104	12:38		1	1	2
DL-20163	11:19		1	1	3
DL-2139	11:22		1	1	4

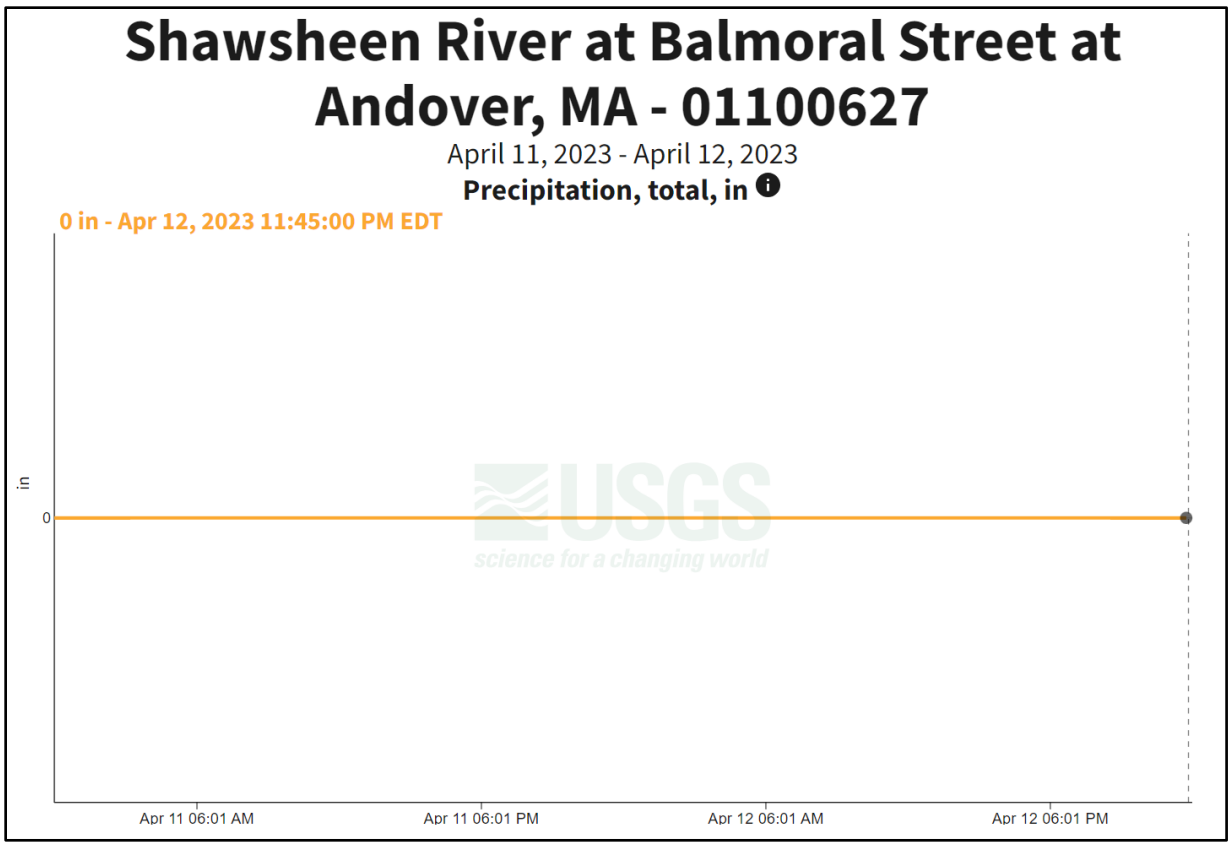
Relinquished by: Date 5/17/23 Time 2:37 Received by: 5/17/23 1600
Relinquished by: Date Time Received by:
Relinquished by: Date Time Received by:

NOTES:

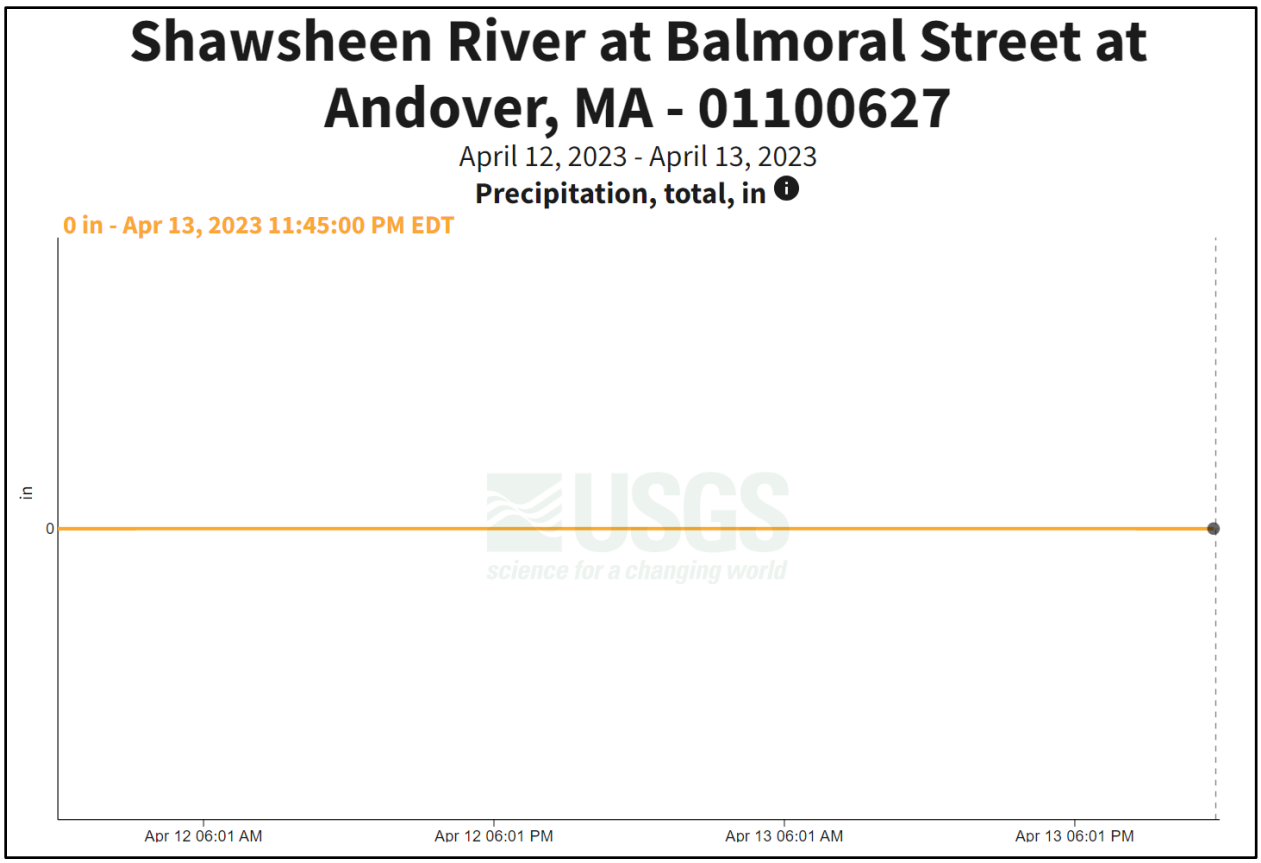
RP230518051

Attachment C

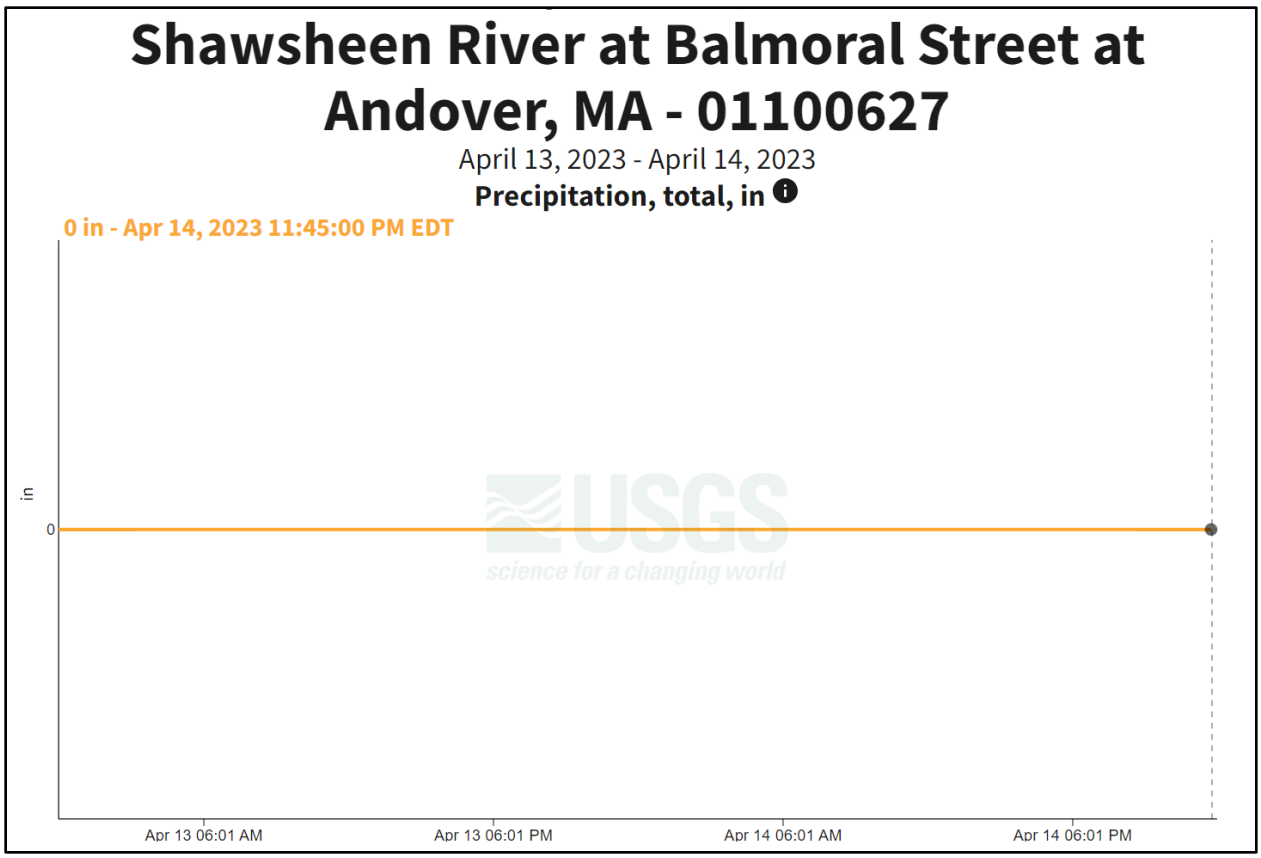
24-Hr Precipitation Totals



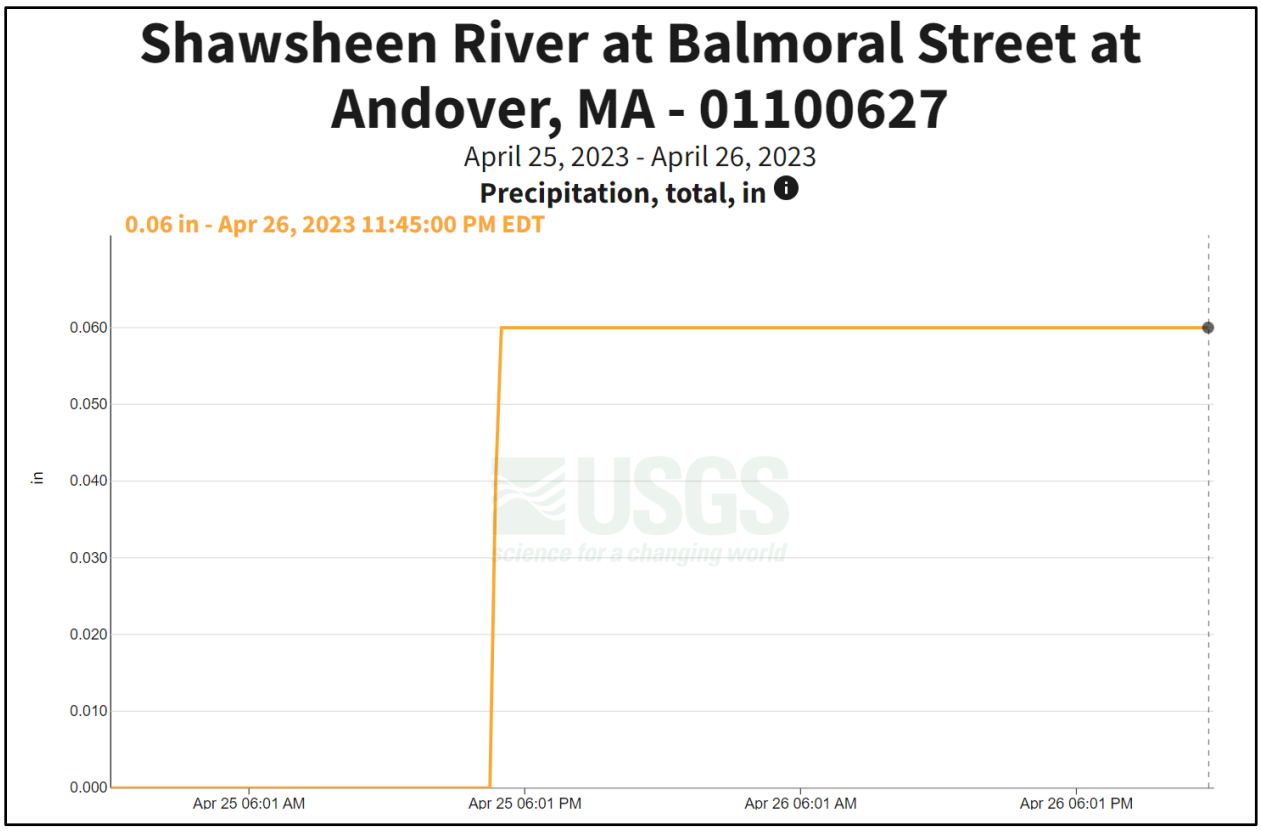
Sampling took place on 4/12/23 from 7:00AM to 4:00PM.



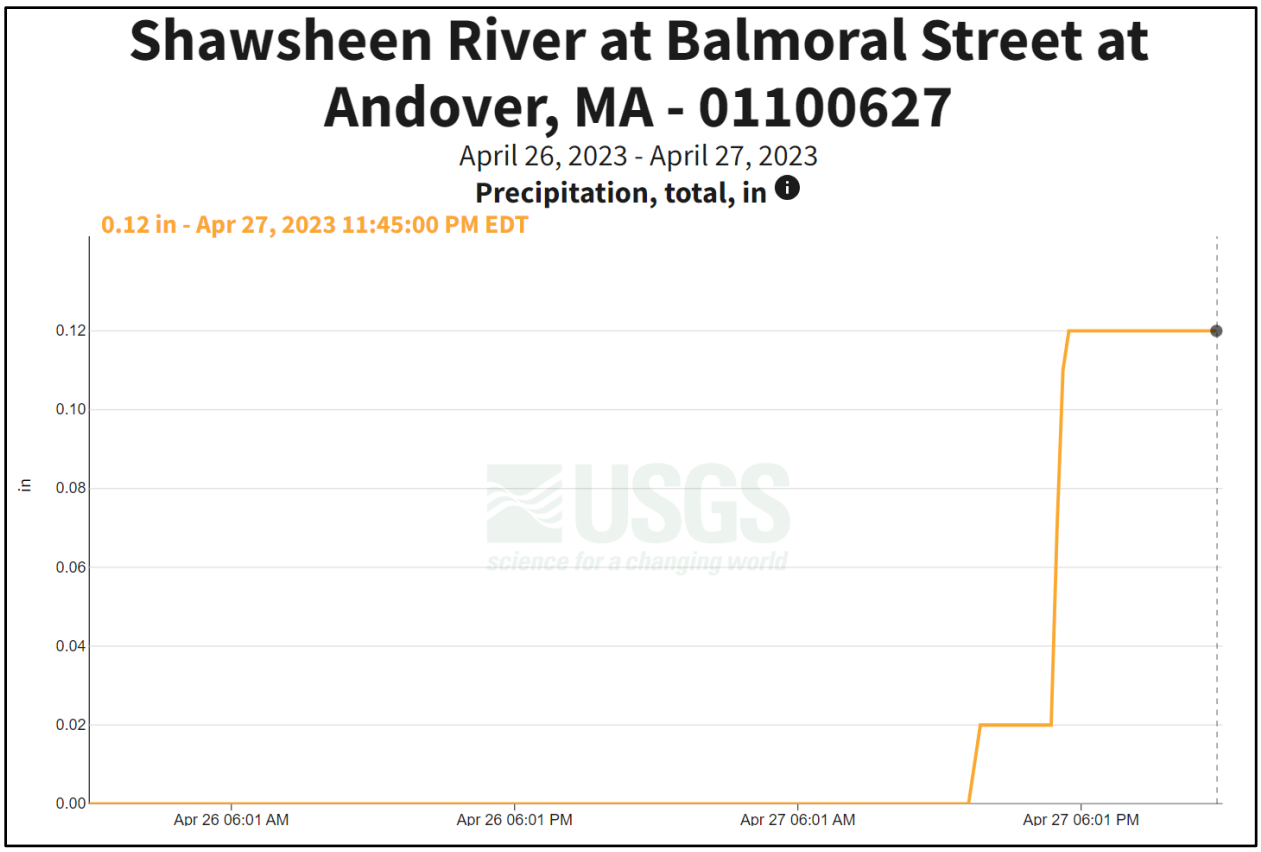
Sampling took place on 4/13/23 from 7:00AM to 4:00PM.



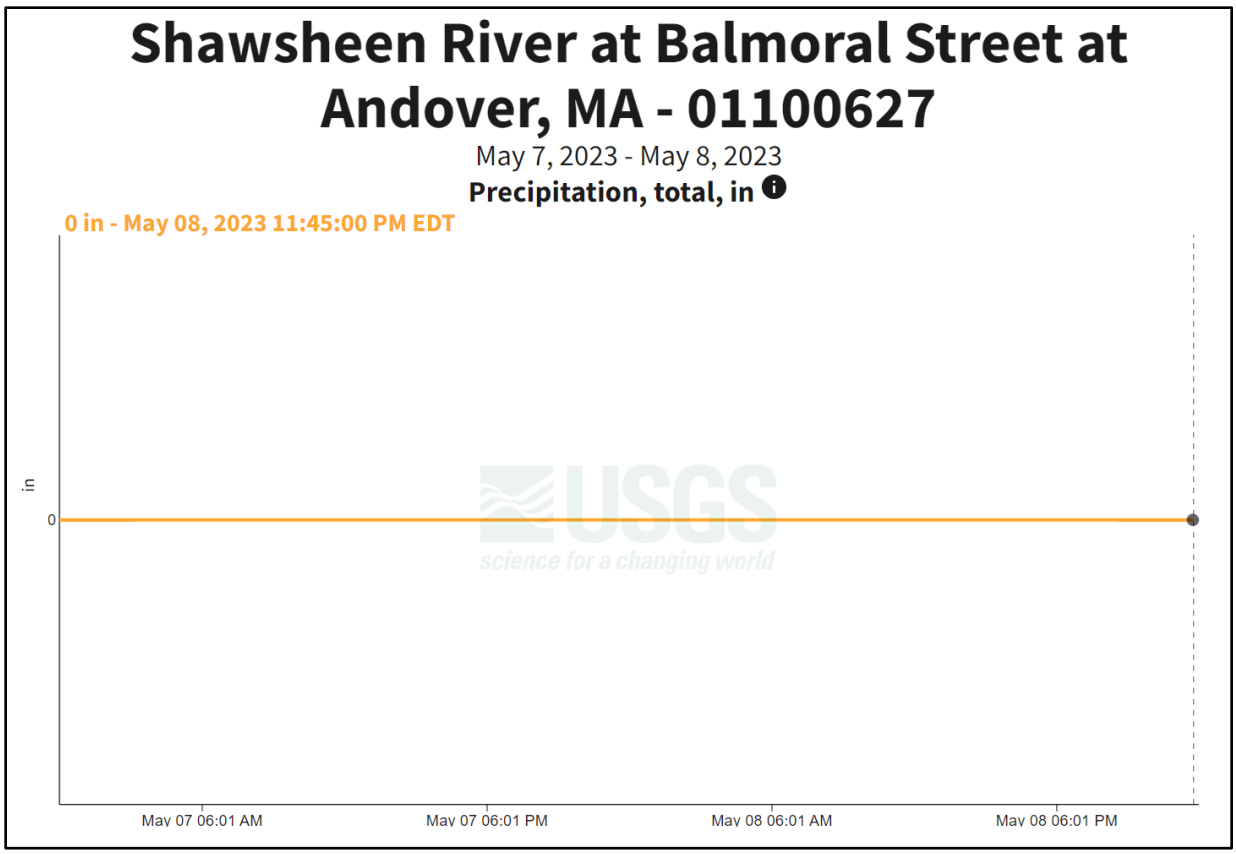
Sampling took place on 4/14/23 from 7:00AM to 4:00PM.



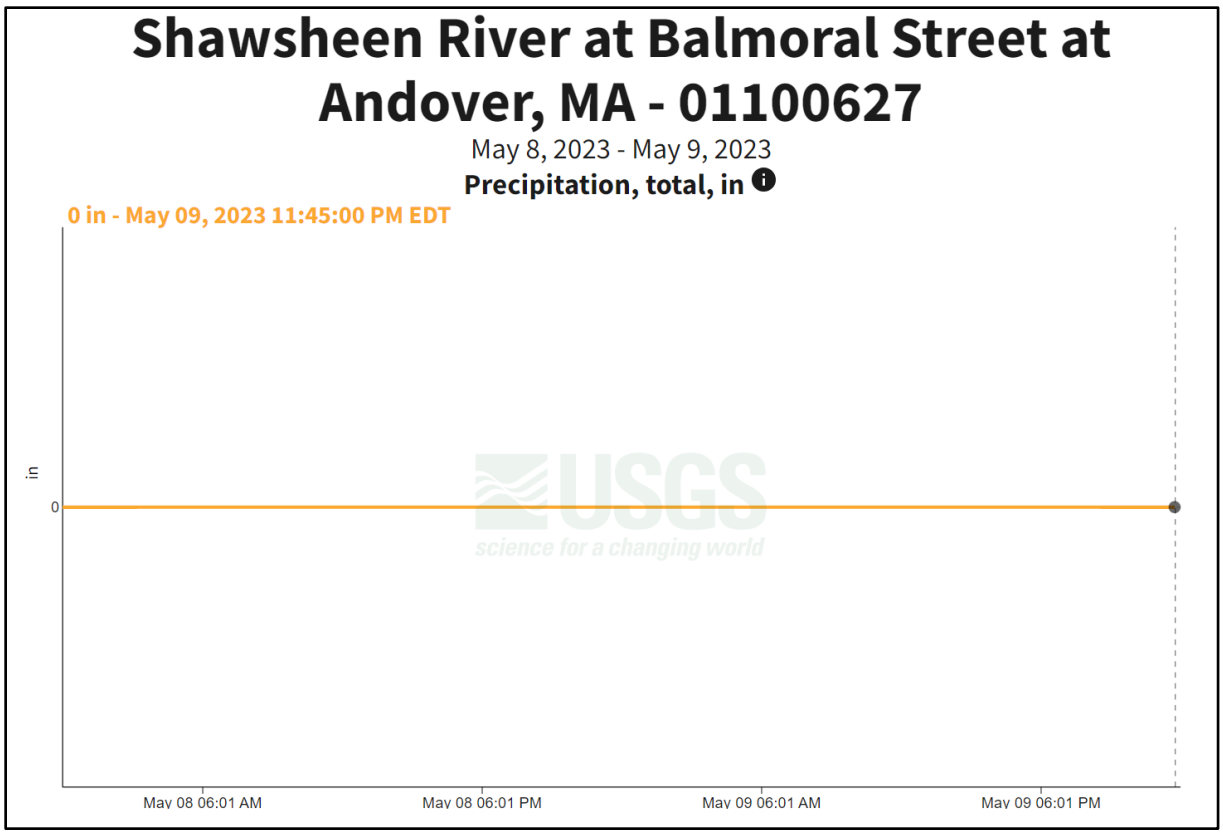
Sampling took place on 4/26/23 from 7:00AM to 4:00PM.



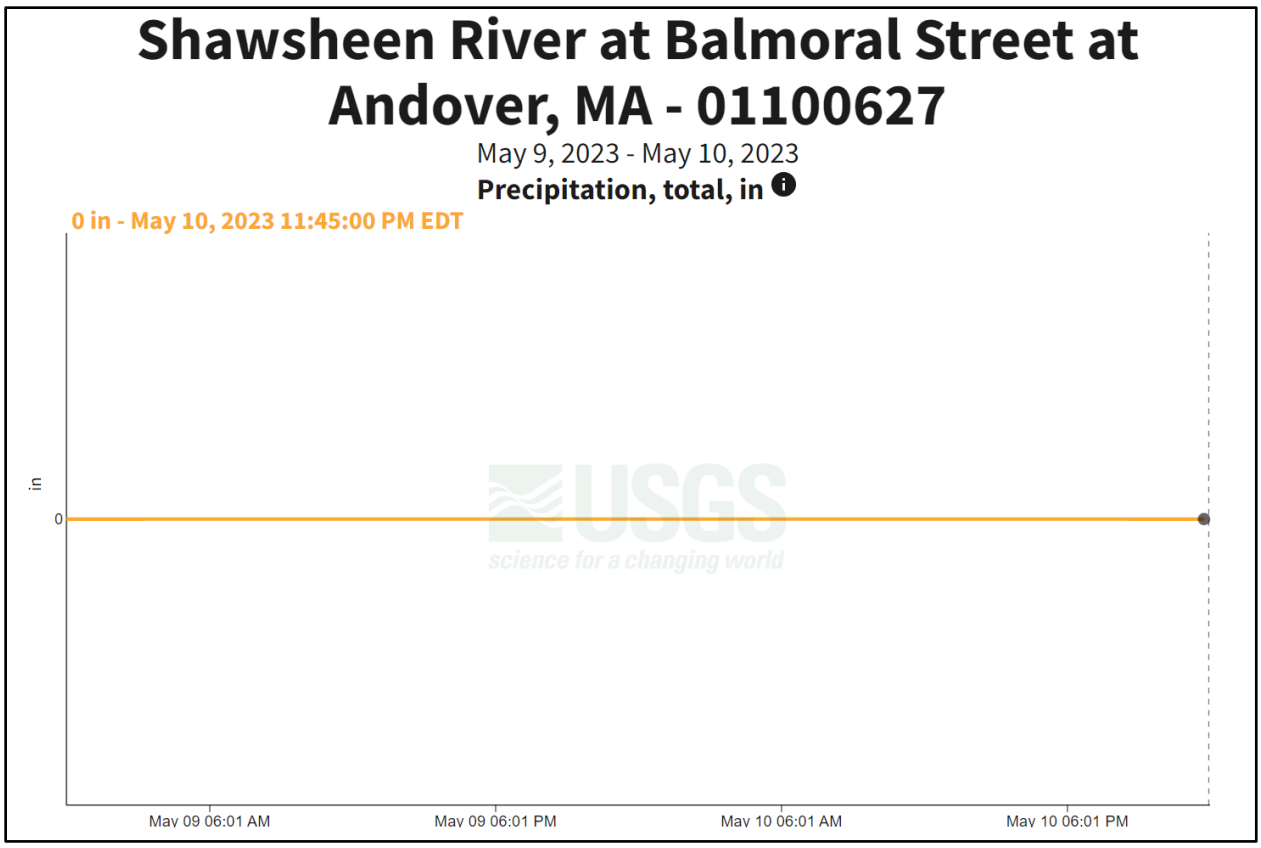
Sampling took place on 4/27/23 from 7:00AM to 4:00PM.



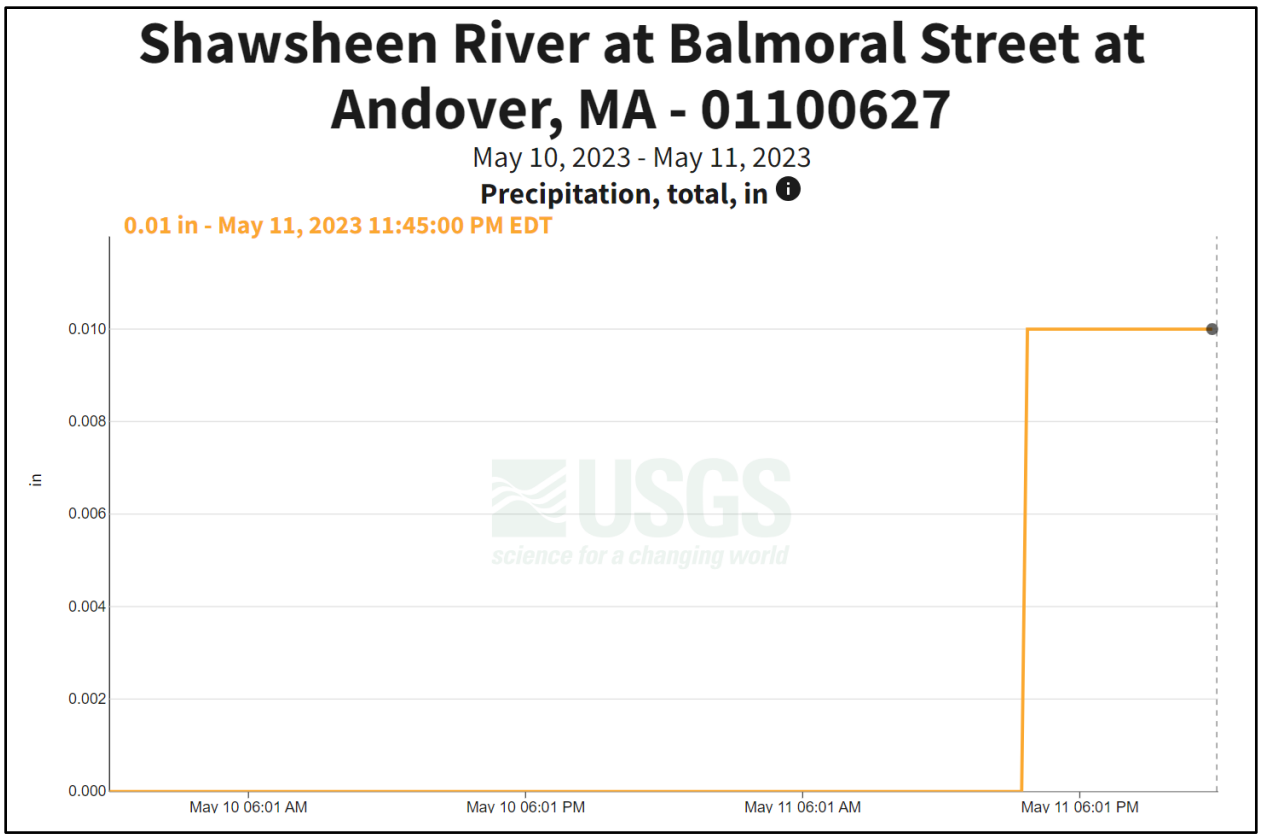
Sampling took place on 5/8/23 from 7:00AM to 4:00PM.



Sampling took place on 5/9/23 from 7:00AM to 4:00PM.



Sampling took place on 5/10/23 from 7:00AM to 4:00PM.



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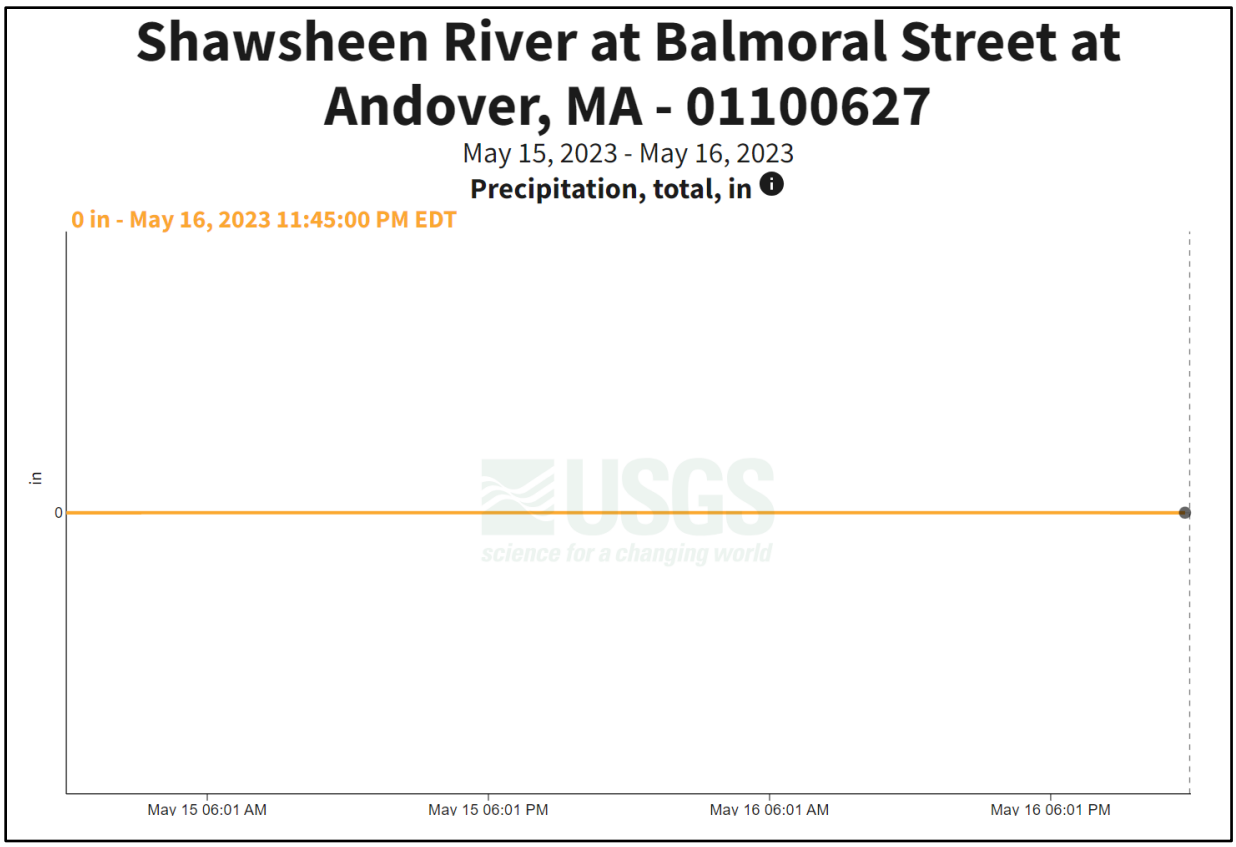
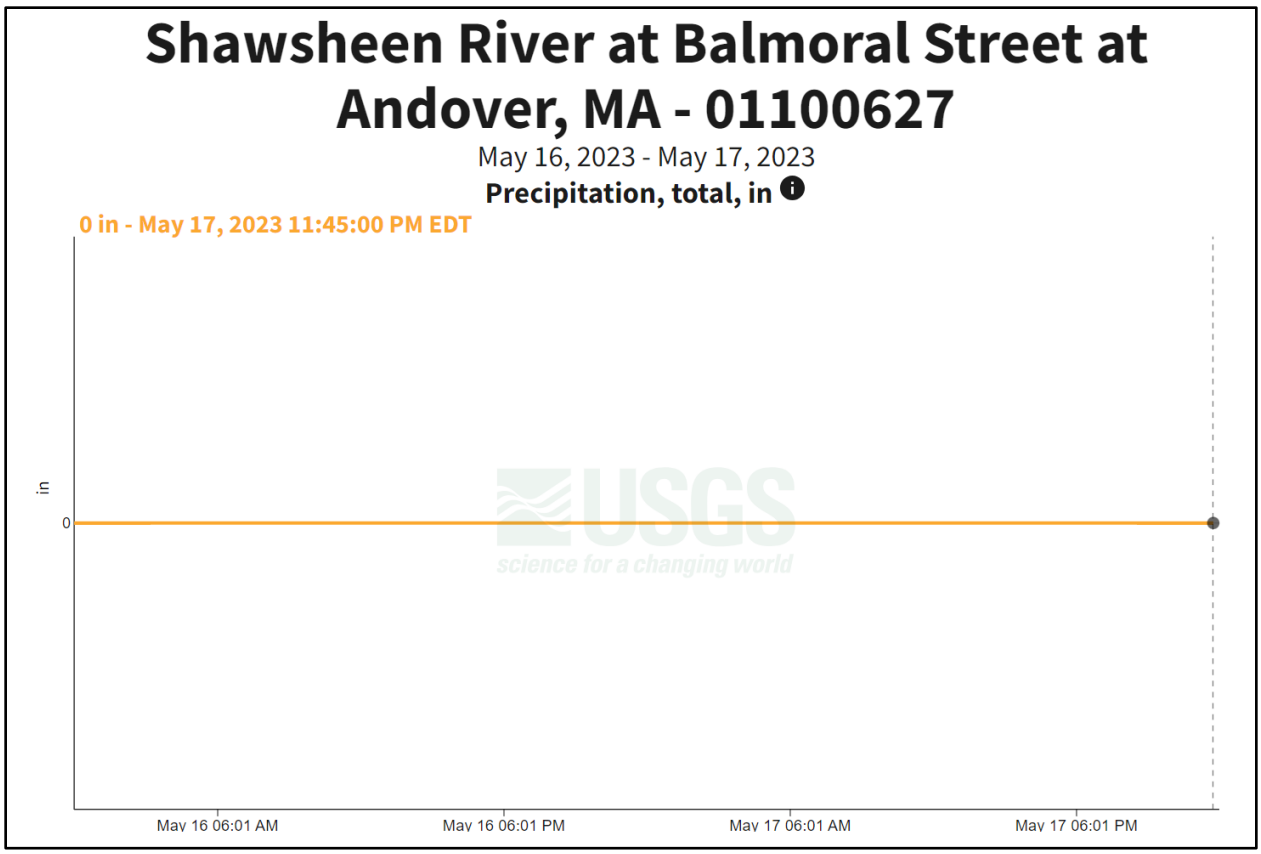


Sampling took place on 5/16/23 from 7:00AM to 4:00PM.



Sampling took place on 5/17/23 from 7:00AM to 4:00PM.

Attachment D

IDDE Inspection Reports

Tewksbury, MA - IDDE Inspection Records

Screening Date	Catchment Outfall ID	Facility Identifier	Pipe Material & Size	Condition	Submerged	Reason for not sandbagging?	What date was the sandbag removed?	Sample Date	Estimated Flow Rate (GPM)	Ammonia (mg/L)	Chlorine (mg/L)	E.coli (MPN/100 mL)	Surfactants (mg/L)	Conductivity (µS/cm)	Salinity (PPT)	Temperature (°F)	Comments
5/8/2023 18:07	OF-4032	DL-1255	15" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	Stream Flow entering system
5/8/2023 17:54	OF-4032	DL-1259	18" RCP	Good	No	Sampled	-	5/8/2023 17:55	Yes ~3 GPM	0.1	0.02	7	0.25	263	0.13	61.7	-
5/8/2023 18:08	OF-4032	DL-1356	12" RCP	Good	No	Sampled	-	5/8/2023 18:09	Yes ~ 5 GPM	0.2	0	<1	0.25	350	0.18	59.36	-
4/12/2023 15:47	OF-4545	DL-6582	12" CMP	Fair	No	Sampled	-	4/12/2023 15:51	Yes ~5 GPM	0	0.02	<1	0.25	567	0.29	60.62	-
4/12/2023 16:15	OF-4545	DL-6577	18" RCP	Fair	Yes ~4'	Submerged	-	-	-	-	-	-	-	-	-	-	-
4/12/2023 15:54	OF-4545	DL-6580	12" RCP	Fair	No	Sampled	-	4/12/2023 15:55	Yes ~ 3 GPM	0	0	<1	0.25	681	0.33	58.28	-
5/10/2023 12:51	OF-4545	DL-6650	12" CMP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	Inlet from swamp
4/27/2023 13:25	OF-4559	DL-809	12" PVC	Good	No	Sampled	-	4/27/2023 13:26	Yes ~ 3 GPM	0.1	0	1	0.25	337	0.17	53.06	-
5/11/2023 17:13	AOF-6035	DL-6871	18" RCP	Good	Yes ~3'	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/11/2023 13:42	AOF-6065	DL-145	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/13/2023 12:11	AOF-6092	DL-3247	12" CMP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/11/2023 15:57	OF-1	DL-106	12" RCP	Good	No	Sampled	-	5/11/2023 15:58	Yes ~ 10GPM	0	0	1	0.25	614	0.31	65.84	-
5/11/2023 16:06	OF-1	DL-253	15" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	Streamflow enters through CB-207
5/11/2023 15:45	OF-1	DL-256	36" RCP	Good	No	Sampled	-	5/11/2023 15:46	Yes ~5 GPM	0.2	0.01	4	0.25	260	0.13	64.58	-
5/11/2023 14:34	OF-10	DL-246	12" RCP	Good	Yes~12"	Submerged	-	-	-	-	-	-	-	-	-	-	Outfall buried, maintenance required.
5/8/2023 13:14	OF-100	DL-995	12" RCP	Good	No	Sampled	-	5/9/2023 13:32	Yes ~ 3 GPM	0.1	0.03	<1	0.25	624	0.31	57.2	-
5/8/2023 15:26	OF-102	DL-1036	12" RCP	Good	Yes~12"	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/8/2023 13:39	OF-108	DL-1181	12" RCP	Good	No	Sampled	-	5/8/2023 13:40	Yes ~ 5 GPM	0.1	0.69	2	0.25	683	0.34	65.84	-
5/8/2023 13:30	OF-108	DL-1182	15" RCP	Good	No	Sampled	-	5/8/2023 13:30	Yes~ 1GPM	0.1	0.02	1	0.25	526	0.23	61.7	-
5/8/2023 14:06	OF-109	DL-1189	15" RCP	Good	No	Sampled	-	5/8/2023 14:06	Yes ~ 5 GPM	0.1	0.01	2	0.25	457	0.23	61.88	-
5/8/2023 13:58	OF-109	DL-1201	15" RCP	Good	No	Sampled	-	5/8/2023 13:59	Yes ~3 GPM	0.1	0	161	0.25	500	0.24	61.16	-
5/8/2023 17:46	OF-112	DL-1359	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/8/2023 17:47	OF-112	DL-1360	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/26/2023 15:31	OF-115	MH-372	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	Both 12" RC Pipes are dry, with no evidence
5/11/2023 12:50	OF-12	DL-72	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 12:21	OF-122	MH-193	Unknown	Good	No	Sampled	-	5/9/2023 12:22	Yes ~ 3 GPM	0.1	0	<1	0.25	1164	0.58	54.86	Upstream CBs both stagnant, might be from building drain. |Unknown source
5/9/2023 12:33	OF-123	DL-863	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/8/2023 15:30	OF-128	DL-1327	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/8/2023 15:30	OF-128	DL-1326	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/8/2023 15:30	OF-128	DL-1325	15" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/8/2023 15:34	OF-129	DL-1329	18" RCP	Fair	No	Sampled	-	5/8/2023 15:35	Yes ~3 GPM	0	0.01	1	0.25	513	0.36	60.8	-
5/8/2023 14:37	OF-130	CB-988	6" HDPE	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	Groundwater discharging infiltrating from the bricks.
5/8/2023 14:22	OF-130	DL-1192	18" RCP	Good	No	Sampled	-	5/8/2023 14:22	Yes ~ 5 GPM	0.1	0.04	<1	0.25	608	0.3	58.46	-
5/11/2023 13:29	OF-130	DL-154	15" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/8/2023 15:18	OF-131	DL-1175	12" RCP	Good	No	Sandbagged - 5/8/2023 15:20	5/9/2023 14:02	-	-	-	-	-	-	-	-	-	-
5/8/2023 18:33	OF-134	DL-1397	12" RCP	Good	No	Sampled	-	5/8/2023 18:33	Yes ~3 GPM	0.2	0.06	28	0	251	0.13	57.56	-
5/8/2023 18:24	OF-134	DL-1398	12" RCP	Good	No	Sampled	-	5/8/2023 18:24	Yes ~3 GPM	0.1	0.79	7	0.25	426	0.2	316.4	-
5/8/2023 16:20	OF-135	MH-206	Unknown	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	Stream flow incoming. No flow seen in other catch basins | CNO
5/11/2023 12:44	OF-14	DL-64	12" CMP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 12:53	OF-145	DL-1111	15" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 13:11	OF-154	DL-1352	12" RCP	Good	Yes~12"	Submerged	-	-	-	-	-	-	-	-	-	-	Needs to be cleaned, pipes and MH completely full of sediment.
5/9/2023 13:11	OF-154	DL-1353	12" RCP	Good	Yes~12"	Submerged	-	-	-	-	-	-	-	-	-	-	Needs to be cleaned, pipes and MH completely full of sediment.
5/8/2023 18:45	OF-158	DL-1394	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 13:17	OF-161	DL-1317	12" RCP	Good	No	Groundwater	-	-	-	-	-	-	-	-	-	-	Culvert should be cleaned, sediment covering most of the outfall pipe.
5/11/2023 13:04	OF-17	DL-235	12" CMP	Good	No	Sampled	-	5/11/2023 13:04	Yes~3 GPM	0.1	0	1	0.25	134	0.07	55.76	-
5/9/2023 14:52	OF-183	DL-6761	12" PVC	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 14:43	OF-184	DL-1609	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 14:47	OF-185	DL-1615	12" RCP	Good	Yes ~6'	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 15:26	OF-187	DL-1618	18" RCP	Good	Yes ~3'	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 15:33	OF-187	DL-1619	12" RCP	Good	No	Sampled	-	5/9/2023 15:34	Yes ~5 GPM	0.1	0.01	<1	0.25	400	0.2	57.56	No flow in upstream catch basins
5/9/2023 14:14	OF-189	DL-1636	18" RCP	Good	No	Sampled	-	5/9/2023 14:14	Yes ~5 GPM	0	0	44	0.25	319	0.16	57.2	-
5/11/2023 13:19	OF-19	DL-79	18" RCP	Good	No	Sampled	-	5/11/2023 13:20	Yes ~ 3 GPM	0	0.03	<1	0	475	0.24	57.38	-
5/9/2023 14:35	OF-195	DL-1674	15" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 15:45	OF-196	DL-1679	12" CMP	Good	No	Sampled	-	5/9/2023 15:45	Yes ~5 GPM	0.1	0.04	1	0.25	405	0.2	56.48	-
5/16/2023 12:57	OF-199	DL-1403	12" RCP	Good	Yes~6"	Submerged	-	-	-	-	-	-	-	-	-	-	-
4/12/2023 15:31	OF-2	DL-215	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/12/2023 15:31	OF-2	DL-214	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/12/2023 15:31	OF-2	DL-219	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/11/2023 13:30	OF-20	DL-201	15" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/26/2023 15:15	OF-200	DL-1758	18" RCP	Good	No	Sampled	-	4/26/2023 15:17	Yes ~2 GPM	0.1	0.02	3	0.25	592	0.3	54.68	-
5/16/2023 15:17	OF-205	DL-1891	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 15:20	OF-205	MH-459	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 14:51	OF-208	DL-1866	12" CMP	Good	Yes~6"	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 15:54	OF-212	DL-1849	24" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/11/2023 13:14	OF-212	DL-267	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 15:31	OF-214	DL-1831	4" PVC	Good	No	Sampled	-	5/16/2023 15:31	Yes ~2 GPM	0	0	<1	0.25	168	0.08	60.62	-
5/16/2023 14:57	OF-218	DL-1856	12" CMP	Fair	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/11/2023 13:35	OF-22	DL-91	15" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 15:13	OF-222	DL-1894	24" PVC	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 16:01	OF-223	DL-1815	6" Metal	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/11/2023 14:19	OF-23	DL-97	6" CMP	Good	No	Sampled	-	5/11/2023 14:19	Yes ~1GPM	0	0	4	0.25	252	0.13	59.9	-
5/16/2023 14:34	OF-232	DL-7314	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 14:02	OF-233	DL-1970	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 13:30	OF-238	DL-2022	12" CMP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 14:20	OF-239	DL-1957	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	Cracked catch basin cover
5/16/2023 14:06	OF-240	DL-7313	12" RCP	Good	No	Sampled	-	5/16/2023 14:08	Yes ~1GPM	0.1	0	<1	0.25	412	0.21	56.84	-
5/16/2023 13:19	OF-248	DL-2025	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 13:19	OF-248	DL-2023	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 13:19	OF-248	DL-2024	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 13:31	OF-248	DL-6555	12" CMP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 13:28	OF-248	DL-6556	12" CMP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 17:05	OF-249	DL-1062	12" RCP	Good	Yes~6"	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 17:57	OF-25	DL-45	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 15:14	OF-252	DL-2063	12" RCP	Good	No	Sampled	-	5/17/2023 15:15	Yes ~5 GPM	0	0.03	1	0.25	843	0.42	58.1	-
5/17/2023 15:22	OF-252	DL-2139	12" RCP	Good	No	Sampled	-	5/17/2023 15:23	Yes~ 3 GPM	0	0	<1	0.25	623	0.34	56.84	-
5/17/2023 15:02	OF-252	DL-2174	Unknown	Good	Yes - Completely	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 15:05	OF-253	DL-2107	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	No flow, partially filled with sediment
5/17/2023 15:01	OF-253	DL-2110	Unknown	Good	Yes - Completely	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 17:38	OF-254	DL-2133	12" RCP	Good	No	Groundwater	-	-	-	-	-	-	-	-	-	-	Groundwater flow
5/17/2023 17:44	OF-254	DL-2135	15" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 17:55	OF-26	DL-29	15" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/11/2023 14:56	OF-27	DL-315	12" RCP	Good	Yes ~8'	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/11/2023 15:00	OF-27	DL-319	15" RCP	Good	No	Sampled	-	5/11/2023 15:01	Yes ~1GPM	0	0	<1	0	288	0.14	64.58	-
5/17/2023 14:42	OF-288	DL-2356	6" CMP	Fair	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/11/2023 15:19	OF-29	DL-6753	18" RCP	Good	No	Sampled	-	5/11/2023 15:21	Yes ~ 3 GPM	0.1	0.03	1	0.25	1248	0.62	62.78	-
4/14/2023 15:24	OF-290	DL-2441	12" PVC	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/14/2023 15:06	OF-290	DL-2454	24" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-

Tewksbury, MA - IDDE Inspection Records

Screening Date	Catchment Outfall ID	Facility Identifier	Pipe Material & Size	Condition	Submerged	Reason for not sandbagging?	What date was the sandbag removed?	Sample Date	Estimated Flow Rate (GPM)	Ammonia (mg/L)	Chlorine (mg/L)	E.coli (MPN/100 mL)	Surfactants (mg/L)	Conductivity (µS/cm)	Salinity (PPT)	Temperature (°F)	Comments
4/14/2023 15:05	OF-290	DL-2462	24" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 13:12	OF-290	DL-2477	24" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/11/2023 13:56	OF-3002	DL-6105	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/26/2023 18:27	OF-3006	MH-2104	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 14:27	OF-3007	DL-1956	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 14:06	OF-302	DL-2566	12" CMP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 14:10	OF-302	DL-2651	15" PVC	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/14/2023 15:37	OF-302	DL-2652	12" CMP	Good	Yes~3'	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 14:11	OF-302	DL-2675	15" PVC	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/26/2023 11:58	OF-3020	DL-6364	12" RCP	Good	No	Sampled	-	4/26/2023 11:59	Yes ~1GPM	0.3	0	2	0.25	464	0.23	49.82	Sediment/rocks in manhole. | Flow originates from last drain line in system
5/16/2023 17:18	OF-3021	DL-3201	12" CMP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/10/2023 14:59	OF-3029	DL-6007	15" RCP	Fair	No	Sampled	-	5/10/2023 15:00	Yes ~5 GPM	0.1	0	<1	0.13	452	0.22	58.28	-
5/10/2023 15:09	OF-3029	DL-6009	15" RCP	Good	No	Sampled	-	5/10/2023 15:10	Yes ~ 3 GPM	0	0.04	3	<.05	860	0.43	58.28	-
5/10/2023 12:51	OF-3034	DL-1728	12" RCP	Good	No	Sampled	-	5/10/2023 12:52	Yes ~5 GPM	0.4	0	<1	0.13	436	0.22	55.22	-
5/17/2023 13:39	OF-304	DL-2575	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 13:39	OF-304	DL-2577	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 13:39	OF-304	DL-2576	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 13:39	OF-304	DL-2579	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/12/2023 12:53	OF-3051	DL-662	24" RCP	Good	No	Sampled	-	4/12/2023 12:54	Yes ~ 15GPM	0.1	0	2	0.25	580	0.29	55.22	-
4/26/2023 12:15	OF-3056	DL-6932	18" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	Sediment
5/11/2023 18:46	OF-3060	DL-1800	18" RCP	Good	No	Sampled	-	5/11/2023 18:46	Yes ~3 GPM	0	0	<1	0.25	442	0.22	58.82	-
5/11/2023 18:39	OF-3060	DL-1802	15" RCP	Good	No	Sampled	-	5/11/2023 18:39	Yes ~3 GPM	0	0	<1	0.25	475	0.24	69.98	-
5/9/2023 17:09	OF-3062	DL-6886	12" HDPE	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/10/2023 14:43	OF-3080	DL-6000	15" RCP	Good	No	Sampled	-	5/10/2023 14:44	Yes ~ 3 GPM	0.2	0.02	<1	<.1	535	0.27	57.56	-
5/10/2023 14:54	OF-3081	DL-6003	15" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/26/2023 16:51	OF-3082	DL-6913	18" RCP	Good	No	Sampled	-	4/26/2023 16:51	Yes ~ 3 GPM	0.1	0.03	<1	0.25	878	0.44	57.2	-
4/26/2023 16:27	OF-3083	DL-6919	12" RCP	Good	Yes ~1'	Submerged	-	-	-	-	-	-	-	-	-	-	-
4/26/2023 16:28	OF-3083	DL-6923	12" RCP	Good	Yes ~1'	Submerged	-	-	-	-	-	-	-	-	-	-	-
4/26/2023 16:30	OF-3083	DL-6924	18" RCP	Good	No	Sampled	-	4/26/2023 16:33	Yes ~1GPM	0.1	0.01	5	0	183	0.09	54.86	-
5/10/2023 12:36	OF-3084	DL-1719	15" RCP	Good	Yes ~1'	Sampled	-	5/10/2023 12:43	Yes ~3 GPM	0	0	4	<.1	225	0.11	50.72	Sample had a yellow tint, potentially causing the ammonia results to be higher than they truly are while using the test kits.
5/9/2023 19:13	OF-3084	DL-1721	15" RCP	Good	Yes ~3'	Submerged	-	-	-	-	-	-	-	-	-	-	-
4/26/2023 17:25	OF-3090	DL-6937	18" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 17:00	OF-3095	DL-6879	12" HDPE	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/26/2023 17:46	OF-3096	DL-6857	12" RCP	Good	No	Sampled	-	4/26/2023 17:47	Yes ~ 3 GPM	0.2	0	17	0.25	489	0.24	57.2	CB did not appear to have any flow, could not open catch basin.
5/17/2023 12:54	OF-313	DL-2608	18" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 12:49	OF-314	DL-2599	15" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 12:49	OF-314	DL-2597	15" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 14:15	OF-317	DL-2633	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/26/2023 17:11	OF-319	MH-2343	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	Both 12" RC Pipes are dry, with no evidence
4/12/2023 14:49	OF-32	DL-308	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/12/2023 14:49	OF-32	DL-306	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/12/2023 14:49	OF-32	DL-304	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/12/2023 14:49	OF-32	DL-416	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/12/2023 14:49	OF-32	DL-6740	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/12/2023 14:13	OF-32	DL-373	12" PVC	Good	No	Sampled	-	4/12/2023 14:14	Yes ~5 GPM	0.1	0.04	<1	0.25	538	0.27	60.44	Sampled from CB downstream from MH. | Mapping updates needed
4/12/2023 15:14	OF-32	DL-379	12" PVC	Good	No	Sampled	-	4/12/2023 15:15	Yes ~1GPM	0	0	<1	0.25	625	0.3	65.12	-
4/12/2023 15:12	OF-32	DL-380	12" CMP	Fair	Yes ~2'	Submerged	-	-	-	-	-	-	-	-	-	-	-
4/12/2023 14:57	OF-32	DL-6619	12" PVC	Good	No	Sampled	-	4/12/2023 14:58	Yes ~ 3 GPM	0	0	<1	0.25	808	0.41	58.64	-
5/16/2023 17:26	OF-328	DL-2990	15" RCP	Good	Yes ~1'	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 11:57	OF-329	DL-2270	18" RCP	Good	No	Sampled	-	5/17/2023 11:58	Yes ~10 GPM	0.2	0	76	0.25	397	0.2	51.8	Suspected stream flow
5/17/2023 12:09	OF-329	DL-2275	36" RCP	Good	Yes~12"	Submerged	-	-	-	-	-	-	-	-	-	-	Stream inlet for mapped OF-273
4/14/2023 16:30	OF-332	DL-2278	24" RCP	Good	Yes ~1'	Submerged	-	-	-	-	-	-	-	-	-	-	Mapping updates for catchment needed.
4/14/2023 16:32	OF-332	DL-2285	24" RCP	Good	No	Sampled	-	4/14/2023 16:33	Yes~ 2GPM	0.2	0	<1	0.25	768	0.39	64.76	Mapping updates
5/17/2023 12:23	OF-333	DL-2342	24" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 12:23	OF-333	DL-2343	24" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 12:23	OF-333	DL-2345	24" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 12:23	OF-333	DL-2341	24" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 17:10	OF-353	DL-2060	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 13:52	OF-360	DL-2485	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/14/2023 15:26	OF-360	DL-2493	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 13:47	OF-360	DL-2494	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/10/2023 14:25	OF-364	DL-2895	18" RCP	Good	No	Sampled	-	5/10/2023 14:25	Yes~ 3 GPM	0	0.01	<1	0.1	834	0.4	56.66	-
5/16/2023 13:57	OF-382	DL-3181	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	Outfall pipe partially buried/blocked with sediment
5/16/2023 13:56	OF-382	DL-3184	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 14:49	OF-385	DL-3262	6" HDPE	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 14:24	OF-389	DL-3306	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/26/2023 14:59	OF-39	DL-529	Unknown	Good	No	Could not see pipe	-	-	-	-	-	-	-	-	-	-	-
5/8/2023 18:51	OF-4012	DL-1367	15" RCP	Good	Yes~6"	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 17:40	OF-4053	DL-1142	Unknown	Good	Yes - Completely	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 17:36	OF-4054	DL-1148	12" RCP	Good	Yes~6"	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 17:34	OF-4055	DL-1150	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/26/2023 17:32	OF-4088	MH-2105	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	Both 12" RC Pipes are dry, with no evidence
4/26/2023 14:41	OF-4094	DL-6226	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/26/2023 14:41	OF-4094	DL-6224	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/26/2023 14:41	OF-4094	DL-6225	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/12/2023 13:22	OF-4095	DL-456	24" RCP	Good	No	Sampled	-	4/12/2023 13:23	Yes ~1GPM	0	0	<1	0.25	533	0.27	55.58	-
4/12/2023 13:08	OF-4095	DL-613	24" RCP	Good	No	Sampled	-	4/12/2023 13:09	Yes ~5 GPM	0	0	<1	0.25	389	0.2	55.58	-
4/12/2023 13:46	OF-4099	DL-654	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	Incoming flow from wetland, no other contributing structures.
4/26/2023 13:30	OF-4102	DL-6214	18" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/26/2023 13:28	OF-4102	DL-6215	18" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/26/2023 14:48	OF-4109	MH-2082	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	Both 12" RC Pipes are dry, with no evidence
4/26/2023 12:27	OF-4113	DL-6191	36" RCP	Good	Yes ~2'	Sampled	-	4/26/2023 12:28	Yes ~ 20 GPM	0.3	0	326	0.25	312	0.16	50.54	-
4/26/2023 12:58	OF-4113	DL-6200	36" RCP	Good	Yes ~2'	Sampled	-	4/26/2023 12:59	Yes ~ 3 GPM	0.3	0.16	135	0.25	279	0.14	50.36	-
4/26/2023 13:12	OF-4113	DL-6209	12" RCP	Good	No	Sampled	-	4/26/2023 13:13	Yes ~ 8 GPM	0.04	0.45	205	0.5	238	0.12	51.26	Buried MH in driveway of house # 401 River
4/26/2023 12:39	OF-4113	DL-6347	Unknown	Good	No	Sampled	-	4/26/2023 12:39	Yes ~5 GPM	0.1	0.04	<1	0.25	415	0.21	50.72	-
4/26/2023 12:46	OF-4113	DL-6348	Unknown	Good	No	Sampled	-	4/26/2023 12:47	Yes ~5 GPM	0.2	0.15	15	0.25	471	0.23	50.36	-
4/26/2023 12:52	OF-4113	DL-6349	Unknown	Good	No	Sampled	-	4/26/2023 12:52	Yes ~5 GPM	0.2	0	15	0.25	471	0.25	50.18	-
4/12/2023 1:36	OF-4122	DL-6495	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 17:50	OF-4135	DL-6293	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 14:29	OF-4152	DL-2370	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 17:18	OF-4160	DL-1158	12" RCP	Good	Yes ~1'	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/8/2023 13:22	OF-4187	DL-6320	4" HDPE	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	Flow from power line area, from the adjacent wetland area.
4/13/2023 12:51	OF-4202	DL-2717	12" RCP	Good	No	Sampled	-	4/13/2023 12:52	Yes ~5 GPM	0	0	<1	0.25	497	0.25	57.92	-
4/12/2023 17:35	OF-4228	DL-2745	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/13/2023 13:21	OF-4231	DL-1920	12" RCP	Good	No	Sampled	-	4/14/2023 17:53	Yes ~2 GPM	0.1	0	<1	0.25	570	0.29	63.68	-
4/13/2023 13:13	OF-4231	DL-1927	18" RCP	Good	No	Sampled	-	4/13/2023 13:16	Yes~ 3 GPM	0	0	<1	0.25	382	0.19	62.96	-

Tewksbury, MA - IDDE Inspection Records

Screening Date	Catchment Outfall ID	Facility Identifier	Pipe Material & Size	Condition	Submerged	Reason for not sandbagging?	What date was the sandbag removed?	Sample Date	Estimated Flow Rate (GPM)	Ammonia (mg/L)	Chlorine (mg/L)	E.coli (MPN/100 mL)	Surfactants (mg/L)	Conductivity (µS/cm)	Salinity (PPT)	Temperature (°F)	Comments
4/13/2023 13:25	OF-4231	DL-1938	4" PVC	Good	No	Sampled	-	4/13/2023 13:25	Yes ~5 GPM	0.1	0.12	<1	0.25	273	0.14	61.52	-
4/27/2023 13:17	OF-4233	DL-678	15" CMP	Good	No	Sampled	-	4/27/2023 13:18	Yes ~ 15GPM	0.4	0	10	0.25	285	0.14	52.52	-
5/16/2023 16:56	OF-4234	DL-6417	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 13:49	OF-4267	DL-1767	15" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	Oil sheen
5/16/2023 17:59	OF-4287	DL-6054	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 17:59	OF-4287	DL-6057	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 17:59	OF-4287	DL-6056	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 18:02	OF-4288	DL-6069	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 18:02	OF-4288	DL-6070	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/12/2023 18:09	OF-4292	DL-2295	12" RCP	Good	Yes ~1'	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 17:32	OF-4298	DL-6534	18" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 17:37	OF-4299	DL-3174	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 11:48	OF-4301	DL-3032	12" CMP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 11:47	OF-4301	DL-3034	12" CMP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/13/2023 12:36	OF-4322	DL-2910	36" CMP	Good	Yes~12"	Submerged	-	-	-	-	-	-	-	-	-	-	To deep, no flow in upstream structures
4/13/2023 12:25	OF-4322	DL-2912	12" RCP	Good	No	Too deep	-	-	-	-	-	-	-	-	-	-	-
4/13/2023 12:29	OF-4322	DL-2930	36" CMP	Good	Yes~12"	Submerged	-	-	-	-	-	-	-	-	-	-	-
4/14/2023 17:30	OF-4331	CB-4663	12" Metal	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/13/2023 11:52	OF-4358	DL-2361	12" CMP	Fair	No	Sampled	-	4/13/2023 11:54	Yes~ 2GPM	0	0.01	<1	0.25	284	0.14	52.88	-
4/13/2023 11:51	OF-4358	DL-2386	12" CMP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/13/2023 12:03	OF-4361	DL-7297	12" CMP	Good	No	Sampled	-	4/13/2023 12:03	Yes ~1GPM	0.1	0	<1	0.25	583	0.29	52.7	-
5/17/2023 16:38	OF-4388	DL-1104	12" RCP	Good	No	Sampled	-	5/17/2023 16:38	Yes~1GPM	0.1	0.03	42	0.25	1270	0.64	60.98	-
5/17/2023 17:22	OF-4389	DL-1162	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 17:26	OF-4389	DL-1581	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/27/2023 12:33	OF-44	DL-497	4" PVC	Good	No	Sampled	-	4/27/2023 12:34	Yes ~ 3 GPM	0	0.2	<1	0.25	271	0.14	47.84	-
4/27/2023 12:41	OF-44	DL-498	12" RCP	Good	No	Sampled	-	4/27/2023 12:42	Yes ~ 3 GPM	0.4	0.05	4	0.25	298	0.15	49.82	-
4/27/2023 12:48	OF-44	DL-499	12" RCP	Good	No	Sampled	-	4/27/2023 12:49	Yes ~ 3 GPM	0	0.03	3	0.25	384	0.19	50	-
5/17/2023 12:37	OF-4408	DL-2601	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 17:29	OF-4418	DL-6822	15" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/14/2023 15:10	OF-4423	CB-2395	24" RCP	Good	Yes ~1'	Submerged	-	-	-	-	-	-	-	-	-	-	-
4/14/2023 15:01	OF-4423	DL-2512	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 13:38	OF-4424	DL-2571	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 13:45	OF-4434	DL-2684	15" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/27/2023 14:28	OF-4500	CB-576	12" RCP	Poor	No	Sampled	-	4/27/2023 14:29	Yes~5GPM	0.3	0	16	0.25	238	0.12	57.56	-
4/27/2023 14:21	OF-4500	DL-664	12" RCP	Good	Yes ~2'	Submerged	-	-	-	-	-	-	-	-	-	-	-
4/27/2023 14:22	OF-4500	DL-667	12" RCP	Good	Yes ~1'	Submerged	-	-	-	-	-	-	-	-	-	-	-
4/27/2023 14:40	OF-4500	DL-691	12" RCP	Fair	No	Sampled	-	4/27/2023 14:40	Yes ~ 3 GPM	0.1	0	1	0.25	340	0.17	56.48	-
4/27/2023 14:49	OF-4500	DL-7308	4" Metal	Good	No	Sampled	-	4/27/2023 14:50	Yes ~ 3 GPM	0.1	0	<1	0.25	128.8	0.06	58.64	-
5/17/2023 18:07	OF-4501	DL-6893	12" HDPE	Good	Yes ~1'	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 18:09	OF-4502	DL-6901	15" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 18:21	OF-4502	DL-6900	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/17/2023 18:21	OF-4502	DL-6899	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/11/2023 17:55	OF-4543	DL-6779	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/12/2023 16:36	OF-4545	DL-3101	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/11/2023 18:01	OF-4546	DL-6399	18" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/11/2023 17:44	OF-4547	DL-6114	18" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/11/2023 17:46	OF-4547	DL-6115	18" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/11/2023 17:34	OF-4549	DL-6271	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/11/2023 17:19	OF-4550	DL-6877	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/11/2023 17:26	OF-4550	DL-6876	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/11/2023 17:19	OF-4551	DL-6875	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/11/2023 17:19	OF-4551	DL-6874	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/27/2023 13:46	OF-4559	DL-672	12" RCP	Good	No	Sampled	-	4/27/2023 13:47	Yes ~ 3 GPM	0.1	0	13	0.25	524	0.26	53.06	-
4/27/2023 13:41	OF-4559	DL-710	12" RCP	Good	Yes ~1'	Submerged	-	-	-	-	-	-	-	-	-	-	Stream flow from swamp
4/27/2023 13:56	OF-4561	DL-483	12" PVC	Fair	No	Sampled	-	4/27/2023 14:00	Yes ~ 3 GPM	0.3	0	31	0.25	331	0.17	34.52	-
4/27/2023 14:02	OF-4561	DL-500	4" Metal	Good	No	Sampled	-	4/27/2023 14:02	Yes ~1GPM	0.1	0	<1	0.25	147	0.07	57.38	-
4/26/2023 18:22	OF-4563	MH-2103	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	Both 12" RC Pipes are dry, with no evidence
4/13/2023 13:11	OF-4570	CB-4693	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/26/2023 13:40	OF-46	MH-142	Unknown	Fair	Yes - Completely	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 17:06	OF-4602	DL-2951	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 17:04	OF-4602	DL-2956	12" RCP	Good	Yes~12"	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/16/2023 17:11	OF-4603	DL-2962	12" CMP	Fair	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/12/2023 17:17	OF-4637	DL-342	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/14/2023 14:16	OF-4638	CB-4197	4" PVC	Poor	No	Sampled	-	4/14/2023 14:17	Yes~ 2GPM	0	0	<1	0.25	292	0.14	68.72	4" PVC yard drain incoming at 1 o'clock from 12 Catamount Road
4/14/2023 14:13	OF-4638	CB-4199	Unknown	Good	No	Groundwater flow	-	-	-	-	-	-	-	-	-	-	Ground water from street entering basin
4/14/2023 14:00	OF-4638	CB-4201	Unknown	Good	No	Sampled	-	4/14/2023 14:01	Yes ~1GPM	0	0	<1	0	99	0.05	66.92	Yard drain incoming at 11 o'clock from 18 Catamount
4/14/2023 13:19	OF-4638	CB-4680	4" PVC	Good	No	Sampled	-	4/14/2023 13:20	Yes ~1GPM	0.1	0	<1	0	448	0.22	61.7	4" PVC yard drain incoming at 5 o'clock.
4/14/2023 12:50	OF-4638	DL-301	24" RCP	Good	No	Sampled	-	4/14/2023 12:52	Yes ~10 GPM	0	0	<1	0.25	462	0.23	61.34	-
4/14/2023 13:34	OF-4638	DL-7303	6" HDPE	Good	No	Sampled	-	4/14/2023 13:34	Yes ~ 3 GPM	0.1	0	<1	0.25	113	0.06	64.58	-
5/16/2023 15:46	OF-4640	DL-1842	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
4/12/2023 12:34	OF-4645	CB-385	4" PVC	Good	No	Sampled	-	4/12/2023 12:35	Yes ~1GPM	0.1	0.07	<1	0.25	618	0.31	57.74	2 4" PVC pipes from 34 Mt Joy, 1 flowing and sampled
4/12/2023 12:40	OF-4645	CB-4699	12" RCP	Good	No	Sandbagged - 4/13/2023 12:30:00 PM	4/14/2020 11:15	-	-	-	-	-	-	-	-	-	-
4/26/2023 18:38	OF-47	DL-705	12" RCP	Good	No	Sampled	-	4/26/2023 18:39	Yes ~1GPM	0.1	0.05	<1	0.25	335	0.17	57.38	-
4/26/2023 14:02	OF-55	DL-611	12" RCP	Good	No	Sampled	-	4/26/2023 14:03	Yes ~ 3 GPM	0.2	0.12	2	0.25	528µS	0.26	52.7	-
4/26/2023 14:12	OF-55	DL-817	12" RCP	Good	Yes ~2'	Submerged	-	-	-	-	-	-	-	-	-	-	Sampled downstream, flow originates from this pipe. Likely groundwater.
5/8/2023 16:51	OF-64	DL-961	36" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 12:00	OF-80	DL-901	24" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 18:30	OF-85	DL-907	12" RCP	Good	No	Sampled	-	5/9/2023 18:31	Yes ~1GPM	2	0	119	0.5	812	0.41	65.84	-
5/9/2023 18:01	OF-88	DL-1015	Unknown	Good	Yes - Completely	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 18:01	OF-88	DL-1016	Unknown	Good	Yes - Completely	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 18:10	OF-91	DL-902	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 18:10	OF-91	DL-903	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/9/2023 17:56	OF-92	DL-1021	12" RCP	Good	Yes ~4'	Submerged	-	-	-	-	-	-	-	-	-	-	-
5/8/2023 16:29	OF-98	CB-734	4" PVC	Good	No	Sampled	-	5/8/2023 16:30	Yes ~1GPM	0	0.01	<1	0.25	210	0.11	55.6	-
5/8/2023 16:25	OF-98	CB-735	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	-
5/8/2023 15:56	OF-99	DL-980	12" RCP	Good	No	Sampled	-	5/8/2023 15:56	Yes ~ 3 GPM	0.6	0	<1	0.25	228	0.1	61.7	-
5/8/2023 15:55	OF-99	DL-984	12" RCP	Good	No	No evidence of a discharge	-	-	-	-	-	-	-	-	-	-	Groundwater flowing into upstream catch basin

Attachment E

Town of Tewksbury Drainage Mapping

TEWKSBURY, MA

DRAINAGE SYSTEM

JUNE 2023

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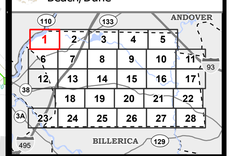

MAP SHEET 1 of 28

400 0 400 800 1,200 Feet

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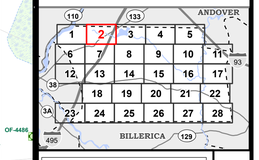

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MAP SHEET 2 of 28

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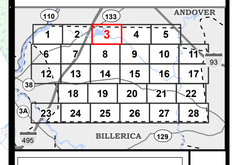

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TEWKSBURY, MA

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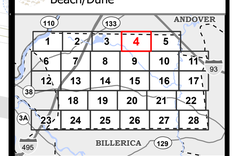

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MAP SHEET 5 of 28

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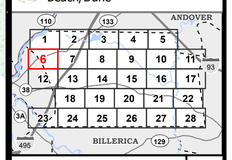

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MAP SHEET 6 of 28

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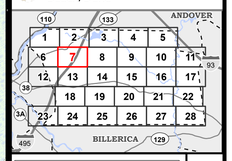

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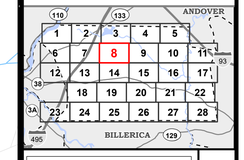

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MAP SHEET 8 of 28

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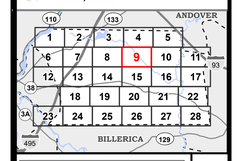

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MAP SHEET 9 of 28

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MAP SHEET 10 of 28

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MAP SHEET 11 of 28

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MAP SHEET 12 of 28

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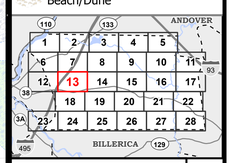
- Marsh/Bog
- Wooded marsh
- Cranberry Bog
- Salt Marsh
- Open Water
- Reservoir (with PWSID)
- Tidal Flats
- Beach/Dune



13

MAP SHEET 13 of 28

400 0 400 800 1,200 Feet

TEWKSBURY, MA

DRAINAGE SYSTEM

JUNE 2023

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- Parcels
- Outfalls
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- Catch Basins
- Swales
- Drain Lines
- Culverts
- Headwalls

DEP Wetlands

Linear Features

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- Mean Low Water Line
- Wetland Limit
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Polygons

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- Reservoir (with PWSID)
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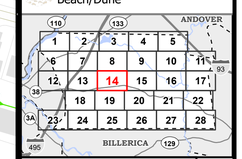

14

MAP SHEET 14 of 28

400 0 400 800 1,200 Feet

TEWKSBURY, MA

DRAINAGE SYSTEM

JUNE 2023

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Polygons
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15

MAP SHEET 15 of 28

400 0 400 800 1,200 Feet

TEWKSBURY, MA

DRAINAGE SYSTEM

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Polygons

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16

MAP SHEET 16 of 28

400 0 400 800 1,200 Feet

TEWKSBURY, MA

DRAINAGE SYSTEM

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MAP SHEET 17 of 28

400 0 400 800 1,200 Feet

N

WILMINGTON

Reginas Drive
Geiger Drive
South Street
Bridge Street
Riverdale Avenue
Townsend Road
Poplar Street
Berns Circle
Serenity Drive
Carleton Road
Homestead Lane
Allen Road
Allen Road Extension
Baldwin Street
Pringle Street
Barbara D Lane
Brian Lane
Pomphret Road
Mcdonald Road

TEWKSBURY, MA

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Polygons

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18

MAP SHEET 18 of 28

400 0 400 800 1,200 Feet

TEWKSBURY, MA

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Polygons

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MAP SHEET 19 of 28

400 0 400 800 1,200 Feet

TEWKSBURY, MA

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Polygons
- Marsh/Bog
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20

MAP SHEET 20 of 28

400 0 400 800 1,200 Feet

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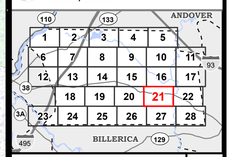

21

MAP SHEET 21 of 28

400 0 400 800 1,200 Feet

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22

MAP SHEET 22 of 28

400 0 400 800 1,200 Feet

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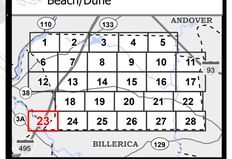

23

MAP SHEET 23 of 28

400 0 400 800 1,200 Feet

LOWELL

CHELMSFORD

BILLERICA

Warnock Street
Staveley Street
Bolt Street
Eugene Street
Billerica Street
Acton Street
Meadowcroft Street
Bolton Street
Clifton Street
Denton Street
Juniper Street
Carmine Street
Gaudreau Street
Chamberlain Street
Felton Street
Grafton Street
Circuit Avenue
Suprenant Street
Easton Street
Arnold Avenue
Holly Street
Christmas Avenue
Bernier Street
Jean Avenue
Armand Avenue
Dermont Avenue
Crystal Street
Bruce Street
Canterbury Street
Rumford Street
Commonwealth Avenue
Ellen Avenue
Folker Street
Forest Avenue
Highland Avenue
Merrel Lane
Greenwood Avenue
Lowell Street
Woburn Street
James Avenue
Kenwood Avenue
Patty Avenue
North Billerica Road
Geddes Drive
Kathleen Circle
West Street
Lowell Crossing
Stromquist Avenue
Corbett Street
Cosgrove Street
Bowden Street
Nelson Avenue
Seneca Street
Murray Lane
Rivers Edge Road
Saratoga Street
Chippewa Street
Mohigan Circle
Gorham Street
3A
Carlisle Street
Ledge Way
Ecklund Drive
Suttle Street
Devine Avenue
OF-191
CB-1262
CB-1264
CB-1261
CB-1260
OF-190
OF-136
MH-353
CB-1314
CB-1315
CB-1316
CB-1317
CB-1320
MH-2140
AOF-6064
CB-1318
CB-1322
CB-1323
CB-1324
CB-1325
OF-113
AOF-6120
CB-1071
CB-1072
CB-1060
CB-1146
CB-1147
CB-1121
CB-1114
CB-1074
CB-1120
CB-1075
MH-347
CB-1122
CB-1041
CB-1042
CB-1110
CB-1040
CB-1043
CB-1044
CB-1045
CB-1046
MH-342
MH-341
CB-4750
CB-4745
CB-4744
CB-1061
CB-1064
CB-1062
CB-1063
CB-4238
CB-1124
CB-1039
CB-1047
MH-340
CB-1048
MH-339
CB-1051
CB-1125
CB-1052
CB-1053
CB-1050
CB-1049
MH-349
CB-1038
CB-1054
CB-1055
MH-338
CB-1056
CB-1057

TEWKSBURY, MA

DRAINAGE SYSTEM

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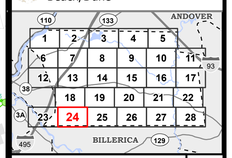

24

MAP SHEET 24 of 28

400 0 400 800 1,200 Feet

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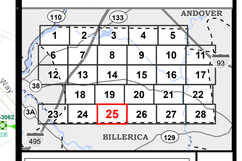

25

MAP SHEET 25 of 28

400 0 400 800 1,200 Feet

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TEWKSBURY, MA

DRAINAGE SYSTEM

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MAP SHEET 26 of 28

400 0 400 800 1,200 Feet

BILLERICA

Leary Drive
Pine Street
Marcia Jean Drive
Henry F Drive
Grasshopper Lane
Foothornet Road
Indian Hill Road
Tomahawk Drive
Sandalwood Circle
Eleanor Road
Margaret Road
Chandler Street
Maureen Drive
Raymond Street
Aprils Way
Delehanty Drive
Donna Drive
Gray Street
Sienna Terrace
Whipple Road
Avon Street
Robert Circle
Patten Road
John Street
Kevin Street
Kent Street
Dairy Street
Hoagman Street
Fowler Road
Chester Street
Chester Circle
Judith E Drive
Champion Street
Belt Circle
Cheryl Ann Drive

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TEWKSBURY, MA

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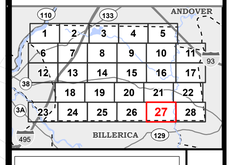

27

MAP SHEET 27 of 28

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28

MAP SHEET 28 of 28

400 0 400 800 1,200 Feet