

June 30, 2021

Mr. Kevin Hardiman, PE  
Town Engineer  
Town of Tewksbury  
999 Whipple Road  
Tewksbury, MA 01876

## 2020-2021 Dry Weather Outfall and Interconnection Screening & Sampling

Dear Mr. Hardiman:

Weston & Sampson is pleased to provide this letter report summarizing work completed on the above referenced project for the Town of Tewksbury. The project consisted of inspecting, screening, and where flow was observed, sampling of the Town's regulated stormwater outfalls during a dry weather period. The samples were evaluated for various water quality parameters in accordance with the Town's 2016 General Permit for Stormwater Discharges from the Municipal Separate Storm Sewer System (MS4 Permit). Our findings and recommendations for further investigation are presented herein.

### ***MS4 Permit Requirement***

The 2016 MS4 Permit requires the Town to perform dry weather screening and sampling of all regulated outfalls and interconnections identified as high and low priority in accordance with the catchment prioritization and ranking matrix that was previously developed. Screening must be completed within three (3) years of the permit effective date or by June 30, 2021. Dry weather screening and sampling shall occur only when no more than 0.1 inches of rainfall has occurred in the previous 24-hour period and no significant snow melt is occurring. In accordance with the MS4 Permit, the following information must be recorded or collected for each outfall or interconnection during screening:

- Unique identifier,
- Receiving water,
- Date of most recent inspection,
- Dimensions,
- Shape,
- Material (concrete, PVC, etc.),
- Spatial location (latitude and longitude with a minimum accuracy of +/-30 feet, physical condition, and
- Indicators of potential non-stormwater discharges (including presence or evidence of suspect flow and sensory observations such as odor, color, turbidity, floatables, or oil sheen).

In those instances where dry weather flow is present at an outfall or interconnection, a sample must be collected and analyzed for the following parameters in accordance with the permit:

- Ammonia
- Chlorine
- Conductivity
- Salinity

- E. coli (freshwater receiving water)
- Surfactants (such as MBAS)
- Temperature
- Pollutants of concern

Where an outfall or interconnection discharges directly into a water quality limited water or a water subject to an approved Total Maximum Daily Load (TMDL), the sample shall also be analyzed for the pollutant(s) of concern identified as the cause of the impairment as specified in Appendix G of the MS4 Permit. As outlined in Tewksbury’s Illicit Discharge Detection and Elimination (IDDE) Plan and identified in Table 1-1, the receiving waters listed are impaired and therefore require sampling for additional parameters identified as they relate to pollutants of concern.

**Table 1-1: Required Sampling Parameters for Impaired Waters**

Water Body Name	Segment ID	Impairment(s)	Required Sampling Parameters
Shawsheen River	MA83-18	Dissolved Oxygen Fecal Coliform Mercury in Fish Tissue	Dissolved Oxygen BOD <sub>5</sub> Total Phosphorous
Strong Water Brook	MA83-07	Fecal Coliform	E. Coli
Pinnacle Brook (Unnamed Tributary to Meadow Brook)	MA83-15	Chloride Fecal Coliform	Chloride
Merrimack River	MA84A-03	Phosphorous Fish Passage Barrier Mercury in Fish Tissue PCB in Fish Tissue	Total Phosphorous
Concord River	MA82A-08	Eurasian Water Milfoil Myriophyllum Non-Native Aquatic Plants Fish Passage Barrier Fanwort and Water Chestnut Mercury in Fish Tissue	Total Phosphorus

Water Body Name	Segment ID	Impairment(s)	Required Sampling Parameters
Long Pond	MA83010	Chlorophyll-a Dissolved Oxygen Phosphorous Excess Algal Growth Secchi Disk Transparency	Dissolved Oxygen BOD <sub>5</sub> Total Phosphorous
Ames Pond	MA83001	Mercury in Fish Tissue	-
Unnamed Tributary to Shawsheen River; Dascomb Road, Andover to confluence with Shawsheen River	MA83-20	Chloride	Chloride
Trull Brook	MA84A-14	E. Coli	E. Coli

Findings from dry weather screening are utilized to assess the likelihood of sewer input to a particular outfall or interconnection based on field observations and results of sampling analyses as outlined in the MS4 Permit. The goal of the dry weather outfall and interconnection screening is to utilize the findings to prioritize catchments for follow-up IDDE investigations under the MS4 Permit to locate likely sources of illicit discharges that could be impacting receiving water quality.

### ***Project Background***

In July 2020, the Town of Tewksbury retained the services of Weston & Sampson to conduct dry weather screening and sampling of regulated Town-owned stormwater outfalls and interconnections in accordance with MS4 Permit requirements. As part of the screening, weather conditions were documented, including noting any rainfall occurring in the 24 hours preceding the inspection; the physical location of each outfall was verified and updated as needed; the receiving water was identified; the presence or absence of flow was observed and documented; and the observed flow rate and other visual characteristics of the flow were noted, where applicable. Characteristics of each outfall were also recorded including pipe material, dimension, shape, structural condition, presence of erosion downstream of the outfall and any evidence of an illicit discharge. For each outfall observed to have dry weather flow, samples were collected and analyzed for ammonia, Escherichia coliform (E.coli), surfactants, total chlorine, conductivity, salinity and temperature. In addition, for outfalls that discharge directly to impaired receiving waters, samples were also analyzed for pollutants of concern including total phosphorous, dissolved oxygen, chloride, BOD<sub>5</sub>. Samples were collected and analyzed in accordance with EPA-approved methods (40 CFR 136). Each sampling parameter is further defined below.

- **Ammonia:** Ammonia is an organic compound found in decaying organic matter, fertilizers, and failing septic systems. It can be another indicator that sewage is entering the storm drain system.

- BOD<sub>5</sub>: Biological Oxygen Demand is a measure of the amount of oxygen needed by microorganisms to decompose organic content in a waterbody. When a high concentration of organics is introduced, the BOD<sub>5</sub> concentration increases, which lowers the amount of dissolved oxygen in the water. BOD<sub>5</sub> is expressed as milligrams of oxygen needed to break down the organic matter contained in a liter of water over five days.
- Chloride: Chloride is a compound commonly used during winter road maintenance. Elevated levels of chloride can cause harm to aquatic life.
- Total Chlorine: Chlorine is added to drinking water as a biocide and is an indicator of potable water entering into the storm drain system.
- Conductivity: Conductivity is the measure of the ability of water to pass an electrical current. This level is impacted by the presence of inorganic dissolved solids. It can be an indicator of an industrial discharge or failing septic system.
- Dissolved Oxygen: Dissolved oxygen is the amount of oxygen that is present in water. Waterbodies receive oxygen from the atmosphere and from aquatic plants. Aquatic animals depend on oxygen to breathe. Waterbodies need to maintain a certain level of dissolved oxygen to support aquatic life. When dissolved oxygen levels get too low, aquatic resources lose their ability to support aquatic life.
- Escherichia coliform (E.coli): E. coli is a bacteria found in the intestines of humans and warm-blooded animals. Elevated concentration of E. coli may be an indicator of sewage discharging into the storm drain system, or other sources of fecal matter, such as failing septic systems, entering the storm drain system.
- Total Phosphorus: Phosphorus, commonly found in fertilizers, is a necessary component of plant growth. When phosphorus enters water bodies in excess it can cause eutrophication or decreased levels of dissolved oxygen within the waterbody, which impacts the ability of the waterbody to support aquatic life.
- Salinity: Salinity is a measure of the amount of salt dissolved in a volume of water. Road salt is commonly spread on roadways during winter storm events to lower the freezing point of water. It is extremely useful in keeping roadways safe during the winter months, but it is actively raising the salinity of freshwater which has negative environmental impacts.
- Surfactants: Surfactants, found in many types of detergents, are often an indicator of wash sinks or washing machine effluent discharging into the storm drain system.
- Temperature: A developed watershed can be a significant source of stormwater runoff for a surface waterbody. Many of the species within these water bodies are highly susceptible to changes in temperature, and as stormwater is conveyed across impervious surfaces, its temperature can increase rapidly.

Benchmark criteria are used to assess whether a contaminant concentration is above Federal or State Water Quality Standards, or in absence of a regulatory standard, industry accepted concentrations based on typical characteristics of surface water and wastewater.

The Federal Ambient Water Quality Standards are obtained from the EPA's Quality Criteria for Water document published in 1986. The EPA is required to publish and update this ambient water quality information based on Section 304 (a) (1) of the Clean Water Act.

The Massachusetts Surface Water Quality Standards (SWQS) designate the most sensitive uses for which surface waters in the Commonwealth shall be protected. The Code of Massachusetts Regulations (CMR), 314 CMR 4.00, establishes the surface water quality standards for the restoration and maintenance of designated uses. The surface waters of the Commonwealth are divided into segments

and each segment is assigned a class. Each class is identified by the most sensitive, and therefore governing, water uses to be achieved and protected. The previous SWQS had a publication date of January 2007 and was later revised by the Massachusetts Department of Environmental Protection (DEP). The revised standards became effective on December 6, 2013.

There are no Class A waters in Tewksbury. However, the Town has multiple Class B waters. Some of the Town-owned outfalls discharge to those waterbodies, and therefore are held to more strict standards. Class B waters include: Shawsheen River, Concord River, Merrimack River, Meadow Brook from Ames Pond. Class B waterbodies are designated as a habitat for fish, other aquatic life, and wildlife including for their reproduction, migration, growth and other critical functions, and for primary and secondary contact recreation. Where designated in 314 CMR 4.06, they shall be suitable as a source of public water supply with appropriate treatment. All other waterbodies in Town are assumed to be Class C waters and shall meet the outlined Class C standards. Class C waterbodies are designated as a habitat for fish, aquatic life, and wildlife, including their reproduction, migration, growth, and other critical functions, and for secondary contact recreation (fishing and boating).

The “Benchmark” criteria included in Table 1-2 is used to assess whether a contaminant concentration is above Water Quality Standards. In the absence of a regulatory standard, industry-accepted concentrations based on typical characteristics of surface water and wastewater are used as a benchmark. High concentrations of ammonia are typically found in wastewater, and abnormal chlorine, temperature, or specific conductance can also indicate the influence of wastewater. Escherichia Coliform is an indicator of contamination from the excrement of humans and primarily used in freshwater. High concentrations of surfactants generally indicate the presence of detergents, such as from clothing or car washing.

Table 1-2: Benchmark Criteria for Outfall Sampling	
Parameter	Benchmark
Ammonia-Nitrogen	>0.5 mg/L per 2016 MS4 Permit
Specific Conductance	2,000 $\mu$ S/cm
pH	Class B Waters – Between 6.5 – 8.3 Class C Waters – Between 6.5 – 9
Escherichia Coliform	Class B waters – 235 cfu/100mL <sup>(1)</sup> Class C Waters – 630 cfu/100ml <sup>(2)</sup>
Surfactants	>0.25 mg/L per 2016 MS4 Permit
Total Chlorine	>0.02 mg/L – detection limit per 2016 MS4 Permit
Temperature	Class B Waters – 68 degrees F cold water fisheries (83 degrees warm water fisheries) Class C Waters – 85 degrees F
Dissolved Oxygen	Class B Waters – 5.0 mg/L for warm water fisheries. (6.0 mg/L for cold water fisheries.) Class C Waters – 3.0 mg/L
BOD <sub>5</sub>	5 mg/L <sup>(3)</sup>
Total Phosphorus	0.1 mg/L <sup>(3)</sup>
Chloride	Chronic Standard – 230 mg/L; Acute Standard – 860 mg/L

1. Massachusetts’s Class B water quality standard for freshwater for E. coli is 235 colonies/100mL for a single grab sample, and 126 colonies/100mL as a geometric mean of the five most recent samples taken.
2. Massachusetts’s Class C water quality standard for freshwater E. coli is 630 colonies/100mL as a geometric mean of all samples taken within the last six months.

3. A placeholder has been included here based on available literature. EPA has indicated that they will be providing additional guidance regarding benchmark criteria for parameters included in Appendix G of the 2016 MS4 Permit.

The following benchmark criteria were used to evaluate the results of the sampling to determine whether the results indicate likely sewer input in accordance with the Town's 2016 MS4 Permit:

- 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
- Ammonia  $\geq$  0.5 mg/L, surfactants  $\geq$  0.25 mg/L, and detectable levels of chlorine (0.02 mg/L).

### ***Outfall and Interconnection Inventory and Screening***

A total of 513 outfalls were identified to be both under the Town's jurisdiction and regulated under the MS4 Permit since they are both located within the urbanized area and discharge to a water of the United States. At this time, the Town is not aware of any outgoing interconnections which discharge to another MS4. A map of the Town's outfalls is included in Attachment A.

Of the 513 outfalls screened and sampled during dry weather as part of this effort, 40 inspections were conducted at the nearest upstream drainage structure. This occurred either due to a partially or fully buried outfall, or because the outfall was inaccessible due to its location or severe overgrowth. All outfalls that could not be inspected at the pipe end were inspected at the next possible upstream structure for dry weather flow. Those outfalls are identified in Table 1-3.

Table 1-3: Outfalls Inspected at Next Upstream Manhole	
Reason for Upstream Inspection	Outfalls
Could Not Access	OF-1, OF-6, OF-47, OF-360, OF-3083, OF-4232, OF-4424
Outfall Likely Buried	OF-28, OF-53, OF-83, OF-102, OF-125, OF-143, OF-372, OF-4007, OF-4088, OF-4101, OF-4146, OF-4154, OF-4179, OF-4192, OF-4235, OF-4415, OF-4463, OF-4236, OF-4500, OF-4512, OF-4544, OF-4328, OF-4551, OF-4390, OF-4563, OF-4050, OF-4330, OF4312, OF-4603
Outfall Completely Submerged	OF-10, OF-4292, OF-4553

### ***Dry Weather Outfall Inspection, Screening and Sampling Findings***

Weston & Sampson completed dry weather screening and sampling during the following dry weather periods: September 16-18, 2020; September 21-24, 2020; September 29, 2020; October 2, 2020; October 5-9, 2020; October 15, 2020; May 13-14, 2021; May 20-21, 2021; June 1-2, 2021; June 7, 2021; and June 18, 2021. A total of 513 outfalls were screened and sampled during dry weather periods. The inspection data is included in Attachment B. To meet Permit requirements for a "dry-weather" period,

there was 0.1-inches or less of precipitation in the 24 hours prior to sampling. A graph of the 24-hour precipitation totals is included in Attachment C for each of these dates.

Dry Weather: Of the 513 outfalls inspected, a total of 46 outfalls had dry weather flow and were sampled. A summary of the sampling results for all outfalls is included in Attachment D. Supporting laboratory documentation for parameters requiring analysis is included in Attachment E.

Based on a comparison of the dry weather sampling results with the benchmark criteria discussed above, the following outfalls meet the criteria above and indicate likely sewer input based on the MS4 Permit:

- OF-117 was found to have high levels of ammonia (3.00 mg/L), surfactants (3.00 mg/L), and detectable levels of chlorine (0.06 mg/L). E. coli was 328 mpn/100mL, which is below the benchmark criteria for a Class C water body of 630 mpn/100mL, but above the limit for a Class B water body.
- OF-4394 was found to have high levels of ammonia (0.60 mg/L), surfactants (0.25 mg/L), and detectable levels of chlorine (0.37 mg/L). E. Coli. was 365 mpn/100mL, which is below the benchmark criteria for a Class C water body of 630 mpn/100mL, but above the limit for a Class B water body.

These outfalls are prioritized in the Town's catchment prioritization and ranking matrix to reflect likely sewer input.

Six additional outfalls did not meet the criteria for likely sewer input based on the MS4 Permit benchmarks, but had significant benchmark exceedances, and have also been prioritized in the Town's catchment prioritization and ranking matrix. These include:

- OF-1 was found to have high levels of surfactants, (0.25 mg/L), detectable levels of chlorine (0.09 mg/L), and high levels of E. Coli. (687 mpn/100mL). This outfall also had moderate levels of ammonia (0.30 mg/L).
- OF-64 was found to have high levels of surfactants (0.25 mg/L), detectable levels of chlorine (0.20 mg/L), and high levels of E. Coli. (980 mpn/100mL).
- OF-3014 was found to have high levels of surfactants (0.38 mg/L), and high levels of E. Coli. (1120 mpn/100mL).
- OF-4507 was found to have high levels of surfactants (0.25 mg/L), and high levels of E. Coli. (579 mpn/100mL).
- OF-4228 was found to have high levels of surfactants (0.25 mg/L), detectable levels of chlorine (0.05 mg/L), and high levels of E. Coli. (1553 mpn/100mL).
- OF-4574 was found to have high levels of E. Coli. (345 mg/L).

Outfalls with other potential indicators of illicit discharge, but not meeting the MS4 Permit's definition of likely sewer input or otherwise triggering immediate action by the MS4 Permit are included below in Table 1-4. Some of these outfalls were not observed to have dry weather flow, so no sampling data is available to verify the presence of an illicit discharge. These defects may not be connected at all to the Town's MS4, but if future problems arise in the receiving waters of these outfalls, it may require further investigation. For outfalls that were not flowing during dry weather conditions, but poor downstream pool quality was observed, wet weather outfall sampling and catchment investigations will be the next step

for the Town to help determine if discharges from the MS4 are contributing to the poor receiving water quality.

Table 1-4: Outfall Observations

Observation	Outfalls
Moderate cloudiness in downstream pool	OF-332 <sup>(1)</sup>
Oil sheen in downstream pool	OF-116, OF-117 <sup>(2)</sup> , OF-136 <sup>(1)</sup> , OF-3086, OF-256
Orange stain in downstream pool	OF-3086
Algae growth in downstream pool	OF-132 <sup>(1)</sup> , OF-134 <sup>(1)</sup> , OF-136 <sup>(1)</sup> , OF-141, OF-190, OF-254, OF-340, OF-350 <sup>(1)</sup> , OF-4109, OF-4160, OF-4389 <sup>(1)</sup> , OF-4394 <sup>(2)</sup> , OF-4395, OF-4418, OF-4523, OF-4543, OF-4636
Organic odor	OF-4512
Turbidity	OF-134 <sup>(1)</sup> , OF-332 <sup>(1)</sup>
Discoloration of pipe	OF-178, OF-254, OF-300, OF-4514 <sup>(1)</sup>
Pet waste at outfall or in downstream pool	OF-6, OF-3029, OF-4291 <sup>(1)</sup> , OF-4354, OF-4585
Water discoloration in downstream pool	OF-4306 <sup>(1)</sup> , OF-4322 <sup>(1)</sup> , OF-4406, OF-4516
Litter in downstream pool	OF4456, OF-4553

1. Outfall had flow during inspection and dry weather sampling results did not indicate likely sewer input.
2. Outfall had flow during inspection, which was sampled and indicated likely sewer input.

### Mapping Updates

During investigations and through communication with the Town, it was determined that many of the Town's outfalls that were previously mapped in GIS are inlets or outlets of culverts. Any culvert that was previously mapped as an outfall and found to have no connection from the Town's MS4 was confirmed as a culvert and therefore, can be removed from the Town's catchment prioritization and ranking matrix. During dry weather outfall inspections and mapping efforts, there were 27 outfalls identified as non-existent; 224 outfalls identified as having two duplicate GPS points in GIS and therefore, one outfall was removed; and 163 outfalls were identified as the end of a culvert with no drainage tied in, or an inlet to the drainage system. These outfalls can be removed from the Town's outfall inventory.

Although the mapping of drainage pipes and other infrastructure was accurate for most of the town, removing all the culvert ends and duplicate GPS points for previously mapped culverts will drastically reduce the inventory of outfalls included within the Town's catchment prioritization and ranking matrix. This list should be updated accordingly, as roadway culverts with no drainage tied in are not required to be sampled during wet weather and their catchments are not required to be investigated .

### Condition Assessment Findings

A condition assessment of each outfall was performed during the inspections. Any identified defects are included in Table 1-5. Damage to the outfall may be indicative of old or failing pipes tributary to the outfall. Holes and cracks in the pipe can allow pollutants to enter the drainage system. Proper system maintenance is critical to minimizing the potential for pollutants to reach surface waters. Although not all pipe defects will impact water quality, it is also important to maintain infrastructure in good condition to prevent flooding and avoid costly emergency repairs. There were 55 outfalls identified as being in poor condition. The observed defects at these outfalls are summarized in the table below. The Town should prioritize the outfalls listed below as they continue to maintain and improve their stormwater system.

Table 1-5: Observed Defects at Outfalls	
Observation	Outfalls
Spalling, Cracking, Corrosion, or Chipping	OF-9, OF-64, OF-89, OF-100, OF-125, OF-148, OF-172, OF-222, OF-255 <sup>(1)</sup> , OF-286, OF-273, OF-291, OF-312, OF-381, OF-390, OF-3088,
Rusted Corrugated Metal Pipe	OF-30, OF-175, OF-176, OF-209 <sup>(2)</sup> , OF-234, OF-258, OF-274, OF-331, OF-374, OF-387, OF-4050, OF-4405, OF-4357,
Partially Collapsed / Damaged or Failing Headwall	OF-17, OF-19, OF-21 <sup>(1)</sup> , OF-22, OF-84 <sup>(1)</sup> , OF-86, OF-188, OF-192 <sup>(1)</sup> , OF-290, OF-291, OF-292, OF-300, OF-332, OF-4269, OF-4426, OF-4434
End of Pipe Disconnected, Broken or Crushed	OF-40, OF-101, OF-207, OF-228, OF-233, OF-254, OF-309, OF-3005, OF-3059, OF-4516

1. End of culvert, not an outfall.
2. This pipe appeared to be in the early stages of replacement during inspection. Assuming construction is complete, this pipe can be removed from this list.

Some of the more common defects that were observed are shown below.



OF-254 located at 67 Lee Street, last section of pipe is displaced, and pipe has moderate corrosion.



OF-176 located at 719 Rogers Street, bottom of CMP has completely rusted out.



OF-332 located at 201 Beech Street, moderate cracking in the headwall.



OF-233 located at 6 Hillside Road, end of pipe is crushed and broken.

### *Recommendations*

The Town of Tewksbury is committed to improving water quality within town, and in turn, is committed to the investigation, identification and remediation of pollutant sources to the extent practicable. To accomplish this goal, Weston & Sampson offers the following recommendations based on the results of the inspection and sampling that was performed as part of this project.

- OF-116, OF-117 and OF-4394 should be investigated as soon as practicable in accordance with the procedures outlined in the Town's Illicit Discharge Detection and Elimination Plan. OF-116 and OF-4394 were identified as having likely sewer input. OF-116 was located near OF-117 and was flowing during inspection, but not enough to get a sample. Both outfalls appear to be

coming from the direction of the building located at 558 Clark Road. The building should be dye tested to verify that all connections conveying non-stormwater discharges that are not allowable under the Town's MS4 Permit discharge to the sanitary sewer. If dye testing cannot confirm an illicit discharge, closed circuit television should be conducted to identify any illicit connections or defects in the drainage pipe that is allowing sewer input into the MS4.

- For the six additional outfalls that did not meet the criteria for likely sewer input based on the MS4 Permit benchmarks, but had significant benchmark exceedances, they should also be prioritized in the Town's catchment prioritization and ranking matrix. These outfalls should be prioritized during wet weather outfall sampling and catchment investigations to determine if the MS4 is contributing to poor water quality. These include; OF-1, OF-64, OF-3014, OF-4228, OF-4507, and OF-4574.
- Catchments tributary to outfalls listed in Table 1-4, where no flow was observed during dry weather screening, should be prioritized during wet weather outfall sampling and catchment investigations to determine if the MS4 is contributing to the downstream water quality impacts observed. These catchments have been prioritized in the Town's catchment prioritization and ranking matrix.
- During the inspections, outfalls were noted to have structural defects, some of which were highlighted in the Condition Assessment Findings Section of this report. While not impacting water quality, improvements should be prioritized to ensure the integrity of the storm drain infrastructure and prevent any localized flooding that could result if the outfall were to further deteriorate. The Town should incorporate and prioritize structural defects found during this investigation into their Capital Improvement 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,

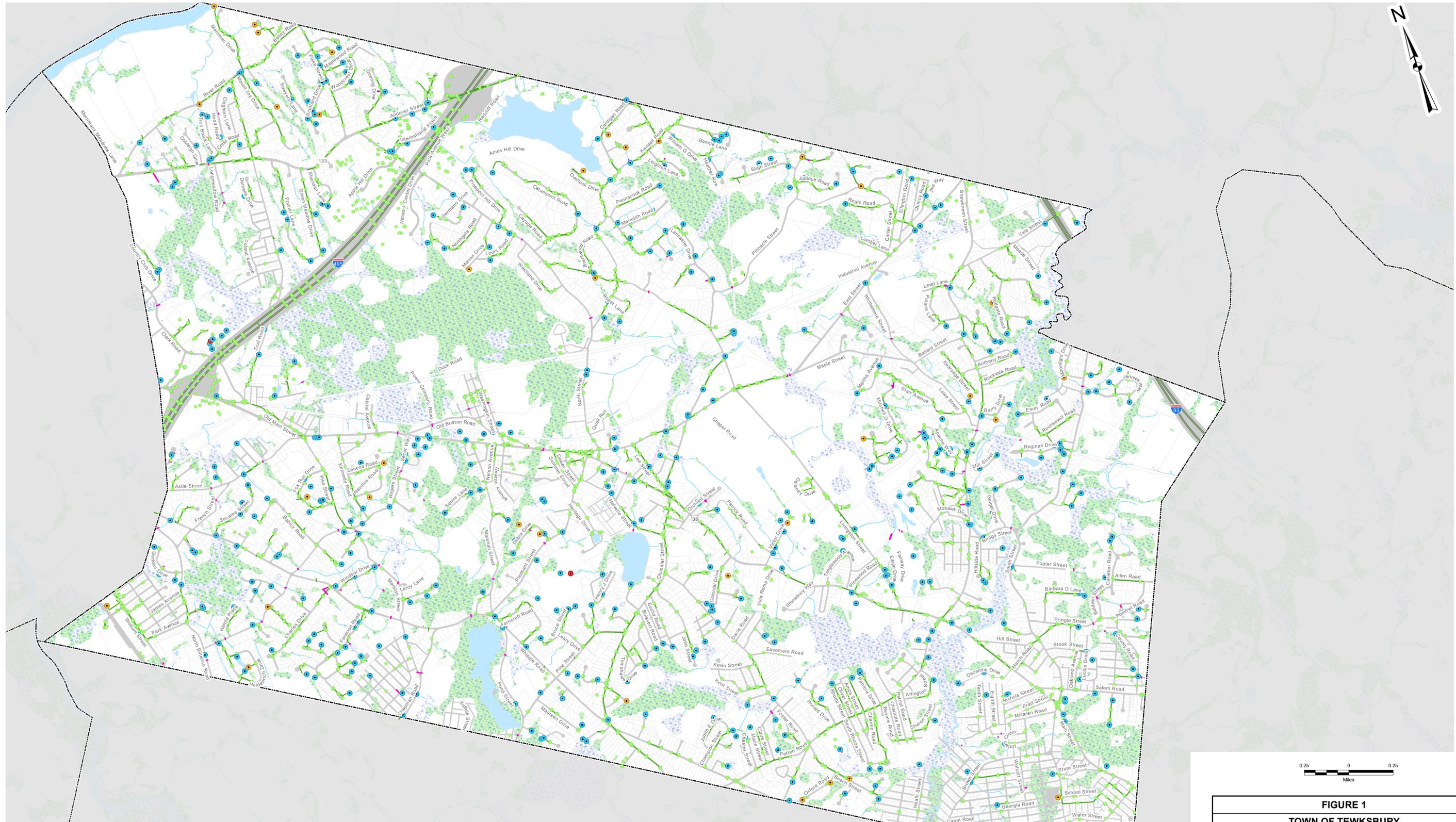
WESTON & SAMPSON ENGINEERS, INC.



Jaurice A. Schwartz, PE  
Team Leader

Attachment A

Town-Wide Outfall Map



- Inspected
- Inspected With Flow
- Inspected With Flow; Evidence of Illicit Discharge
- Catch Basins
- Culvert
- Storm Drain
- Hydrologic Connection
- Marsh/Bog
- Wooded marsh
- Open Water



**FIGURE 1**  
**TOWN OF TEWKSBURY**  
**MS4 COMPLIANCE**

**DRY WEATHER OUTFALL**  
**SAMPLING RESULTS**

JUNE 2021 SCALE: NOTED

**Weston & Sampson**

Attachment B

Outfall Inspection Results

Tewksbury, MA - Outfall Inspection Results																					
Outfall ID	Has there been rainfall in the past 24 hours?	Inspection Date	Inspector	Inspection Status	Description of Flow	Flow Rate	Submerged	Height Above Invert	Discharge Point Observation(s)	Color (Discharge Point)	Floatables (Discharge Point)	Odor (Discharge Point)	Turbidity (Discharge Point)	Downstream Observation(s)	Color (Downstream)	Floatables (Downstream)	Odor (Downstream)	Turbidity (Downstream)	Other Observation	General Comments	
OF-336	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Minor erosion	Pipe in good condition
OF-340	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Algae (Poor Pool Quality)	-	-	-	-	-	Orange algae downstream of outfall	Pipe in fair condition
OF-349	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	Yes	10	-	-	-	-	-	Erosion	-	-	-	-	-	Moderate erosion	Pipe in fair condition
OF-357	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Minor erosion, some trash DS of outfall	Pipe in fair condition
OF-356	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Minor erosion, some trash DS of outfall	Pipe in fair condition
OF-361	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Minor erosion	Pipe in fair condition
OF-203	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Minor erosion	Pipe in good condition
OF-338	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	Yes	3	-	-	-	-	-	-	-	-	-	-	-	Pipe partially submerged, fair condition	
OF-226	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Partly buried	Pipe in fair condition
OF-224	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe partially buried	Pipe in fair condition
OF-236	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Partly buried	Outfall in average condition, partially buried
OF-355	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Partly buried	Outfall in fair condition
OF-210	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe almost completely buried	Pipe in fair condition
OF-231	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Minor erosion	Pipe in fair condition
OF-246	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in good condition
OF-260	Dry	2020-09-16	Weston & Sampson	Inspected	Moderate	2	No	-	-	-	-	-	-	Algae (Poor Pool Quality)	-	-	-	-	-	Algae	Pipe in fair condition
OF-229	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	Yes	8	-	-	-	-	-	Excessive Vegetation Erosion	-	-	-	-	-	Moderate erosion	Pipe in fair condition
OF-228	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Outfall covered in debris and vegetation, needs clearing
OF-238	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition
OF-248	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	-	Pipe in fair condition
OF-227	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	4inch pvc, looks like area drain or sump pump not the MS4
OF-233	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Outfall in poor condition, end of pipe is crushed and rusted
OF-234	Dry	2020-09-16	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition, bottom of CMP is beginning to rust
OF-3007	Dry	2020-09-17	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation Erosion	-	-	-	-	-	Moderate overgrowth, minor erosion	Pipe in fair condition
OF-240	Dry	2020-09-17	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Moderate overgrowth	Pipe in fair condition, some debris blocking outfall
OF-235	Dry	2020-09-17	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Moderate overgrowth	Outfall in fair condition, partially buried
OF-3035	Dry	2020-09-17	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Severe erosion	Pipe in average condition
OF-381	Dry	2020-09-17	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Moderate erosion	Fair condition, headwall chipping
OF-388	Dry	2020-09-17	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Minor erosion	Pipe in average condition
OF-207	Dry	2020-09-17	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition, end of pipe broken. Partially buried
OF-232	Dry	2020-09-17	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Outfall in good condition
OF-235	Dry	2020-09-17	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Minor erosion	Mostly buried
OF-360	Dry	2020-09-17	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Moderate erosion	Outfall in good condition
OF-365	Dry	2020-09-17	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Some trash DS of outfall	Outfall in fair condition
OF-346	Dry	2020-09-17	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Moderate overgrowth	Pipe in fair condition
OF-3061	Dry	2020-09-17	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Moderate erosion	Pipe in good condition
OF-212	Dry	2020-09-17	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Moderate overgrowth	Pipe in good condition
OF-268	Dry	2020-09-17	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Outfall in good condition
OF-270	Dry	2020-09-17	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Outfall in average condition, partially buried
OF-269	Dry	2020-09-17	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Outfall in average condition
OF-271	Dry	2020-09-17	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Good condition
OF-342	Dry	2020-09-17	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Outfall partially buried
OF-354	Dry	2020-09-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Outfall in average condition
OF-343	Dry	2020-09-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Outfall in average condition, pipe is mostly buried
OF-344	Dry	2020-09-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation Erosion	-	-	-	-	-	Moderate erosion, minor overgrowth	Debris partially covering outfall, pipe in fair condition
OF-205	Dry	2020-09-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in average condition
OF-204	Dry	2020-09-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	No receiving water, infiltration. May not be regulated.
OF-210	Dry	2020-09-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Mostly buried	Pipe in fair condition
OF-217	Dry	2020-09-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Moderate overgrowth
OF-215	Dry	2020-09-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition
OF-214	Dry	2020-09-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Outfall in average condition. Discharges to constructed wetland which discharges to unnamed wetland
OF-221	Dry	2020-09-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Moderate overgrowth	Outfall in fair condition
OF-218	Dry	2020-09-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Moderate overgrowth	Outfall in average condition
OF-208	Dry	2020-09-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Moderate overgrowth, debris DS of outfall should be removed	Pipe in good condition
OF-206	Dry	2020-09-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Minor erosion	CMP outfall buried under rocks
OF-219	Dry	2020-09-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Minor overgrowth	Outfall in fair condition
OF-223	Dry	2020-09-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Moderate overgrowth	Pipe in fair condition, partially buried
OF-216	Dry	2020-09-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Moderate overgrowth
OF-212	Dry	2020-09-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	-	Outfall likely buried, upstream structure inspected. Pipe was dry and in good condition
OF-220	Dry	2020-09-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Moderate overgrowth	Outfall partially buried, pipe in fair condition
OF-3070	Dry	2020-09-18	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment Excessive Vegetation	-	-	-	-	Excessive Sediment Excessive Vegetation	-	-	-	-	-	Moderate overgrowth, partially buried	Outfall in fair condition
OF-285	Dry	2020-09-21	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation Erosion	-	-	-	-	-	Minor soil erosion, moderate overgrowth	Pipe in good condition
OF-286	Dry	2020-09-21	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation Erosion	-	-	-	-	-	Minor soil erosion, moderate overgrowth	Minor corrosion of pipe
OF-282	Dry	2020-09-21	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	-	-	-	-	-	-	Sediment build up in pipe and debris at outlet	Pipe in good condition
OF-330	Dry	2020-09-21	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Moderate overgrowth	Pipe in good condition
OF-329	Dry	2020-09-21	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Moderate overgrowth	Pipe in good condition
OF-323	Dry	2020-09-21	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Sediment and debris build up at outlet	Outfall in poor condition
OF-300	Dry	2020-09-21	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition, rebar exposed at outfall
OF-328	Dry	2020-09-21	Weston & Sampson	Inspected	None	-	Yes	6	-	-	-	-	-	Excessive Sediment Excessive Vegetation	-	-	-	-	-	Moderate sediment and overgrowth downstream of outfall.	Outfall in average condition
OF-383	Dry	2020-09-21	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in good condition
OF-332	Dry	2020-09-21	Weston & Sampson	Inspected	Trickling	1	No	-	-	-	-	-	-	Turbidity	-	-	-	-	-	Cloudy	Cloudy water downstream
OF-333	Dry	2020-09-21	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Minor sediment build up	Fair condition, headwall cracked
OF-3042	Dry	2020-09-21	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Sediment build up and moderate overgrowth	Pipe in good condition
OF-274	Dry	2020-09-21	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Moderate overgrowth	Outfall in poor condition, rusted CMP
OF-314	Dry	2020-09-21	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment Excessive Vegetation	-	-	-	-	-	Sediment build up and minor overgrowth downstream	Pipe in good condition
OF-313	Dry	2020-09-21	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Moderate erosion	Outfall in average condition
OF-312	Dry	2020-09-21	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Severe erosion	Poor condition, rebar exposed and moderate corrosion
OF-316	Dry	2020-09-21	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Outfall almost completely buried
OF-311	Dry	2020-09-21	Weston & Sampson	Inspected	None	-	Yes	4	Excessive Sediment	-	-	-	-	Excessive Vegetation	-	-	-	-	-		

Tewksbury, MA - Outfall Inspection Results																				
Outfall ID	Has there been rainfall in the past 24 hours?	Inspection Date	Inspector	Inspection Status	Description of Flow	Flow Rate	Submerged	Height Above Invert	Discharge Point Observation(s)	Color (Discharge Point)	Foatables (Discharge Point)	Odor (Discharge Point)	Turbidity (Discharge Point)	Downstream Observation(s)	Color (Downstream)	Foatables (Downstream)	Odor (Downstream)	Turbidity (Downstream)	Other Observation	General Comments
OF-149	Dry	2020-09-22	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment Excessive Vegetation	-	-	-	-	Excessive Sediment	-	-	-	-	Severe overgrowth	Fair condition, partially buried
OF-152	Dry	2020-09-22	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Sediment	-	-	-	-	-	Outfall in fair condition
OF-130	Dry	2020-09-22	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Sediment	-	-	-	-	Minor sediment build up	Pipe in good condition, some debris downstream of outfall
OF-131	Dry	2020-09-22	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment Excessive Vegetation	-	-	-	-	Excessive Sediment	-	-	-	-	Severe overgrowth and moderate sediment build up	Pipe in fair condition
OF-109	Dry	2020-09-22	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	Minor erosion	Outfall in good condition
OF-108	Dry	2020-09-22	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Outfall in good condition
OF-100	Dry	2020-09-22	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Erosion	-	-	-	-	Minor sediment build up, minor erosion	Pipe in fair condition
OF-65	Dry	2020-09-23	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Sediment	-	-	-	-	Moderate overgrowth downstream	Pipe in fair condition, rebar exposed at outlet
OF-66	Dry	2020-09-23	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	Minor soil erosion	Pipe in good condition
OF-67	Dry	2020-09-23	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	Minor soil erosion downstream	Pipe in good condition
OF-68	Dry	2020-09-23	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	Minor soil erosion downstream	Pipe in good condition
OF-69	Dry	2020-09-23	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	Minor soil erosion downstream	Pipe in fair condition
OF-101	Dry	2020-09-23	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment Excessive Vegetation	-	-	-	-	Excessive Sediment	-	-	-	-	Moderate sediment build up and moderate overgrowth	Pipe in fair condition, no last section of pipe has a hole in it
OF-99	Dry	2020-09-23	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment Excessive Vegetation	-	-	-	-	Excessive Sediment	-	-	-	-	Moderate sediment build up and moderate overgrowth	Pipe in fair condition
OF-102	Dry	2020-09-23	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Could not locate outfall, inspected at upstream manhole.
OF-128	Dry	2020-09-23	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Some debris downstream of pipe	Pipe in fair condition.
OF-129	Dry	2020-09-23	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Minor sediment build up and minor overgrowth	Pipe in good condition
OF-135	Dry	2020-09-23	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Pipe in average condition
OF-98	Dry	2020-09-23	Weston & Sampson	Inspected	Moderate	2	Yes	4	-	-	-	-	-	Excessive Sediment	-	-	-	-	-	Pipe in fair condition
OF-64	Dry	2020-09-23	Weston & Sampson	Inspected	None	-	Yes	1	-	-	-	-	-	Erosion	-	-	-	-	Minor soil erosion	Fair condition, minor cracking, spalling
OF-133	Dry	2020-09-23	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Sediment	-	-	-	-	Moderate overgrowth	Pipe in fair condition, box outfall
OF-132	Dry	2020-09-23	Weston & Sampson	Inspected	Trickling	1	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment Poor Pool Quality	-	-	-	-	Orange algae downstream, moderate overgrowth	Outfall in fair condition
OF-162	Dry	2020-09-23	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Sediment	-	-	-	-	Moderate overgrowth	This is mapped incorrectly. Change location of asset to the end of the drainage system next to the inlet of the culvert across the street. Pipe in fair condition, rebar exposed at outlet
OF-142	Dry	2020-09-23	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Moderate overgrowth	Pipe in average condition
OF-134	Dry	2020-09-23	Weston & Sampson	Inspected	Trickling	1	No	-	Algae Pipe Benthic Growth	-	-	-	-	Algae Turbidity	-	-	-	-	Slight Cloudiness	Pipe in fair condition
OF-158	Dry	2020-09-23	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Moderate sediment build up	Pipe in average condition
OF-112	Dry	2020-09-23	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment Excessive Vegetation	-	-	-	-	Excessive Sediment	-	-	-	-	Minor sediment build up and moderate overgrowth	Outfall in average condition
OF-143	Dry	2020-09-23	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment Excessive Vegetation	-	-	-	-	Excessive Sediment Excessive Vegetation	-	-	-	-	-	Outfall buried, upstream CB full of water, not flowing
OF-195	Dry	2020-09-24	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Moderate overgrowth	Pipe in average condition
OF-141	Dry	2020-09-24	Weston & Sampson	Inspected	None	-	Yes	4	Algae	-	-	-	-	Algae	-	-	-	-	-	Pipe in average condition
OF-190	Dry	2020-09-24	Weston & Sampson	Inspected	None	-	Yes	4	Excessive Sediment	-	-	-	-	Algae	-	-	-	-	Moderate overgrowth, algae downstream	Pipe in fair condition
OF-191	Dry	2020-09-24	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Pipe mostly buried
OF-193	Dry	2020-09-24	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Pipe in fair condition
OF-136	Dry	2020-09-24	Weston & Sampson	Inspected	Moderate	3	No	-	Excessive Sediment	-	-	-	-	Algae Poor Pool Quality	-	-	-	-	Oil sheen downstream	Pipe in good condition
OF-113	Dry	2020-09-24	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Pipe in fair condition
OF-189	Dry	2020-09-24	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment Excessive Vegetation	-	-	-	-	Excessive Sediment	-	-	-	-	Moderate sediment build up and moderate overgrowth	Outfall in fair condition
OF-188	Dry	2020-09-24	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Severe overgrowth	Outfall in fair condition, headwall has a hole
OF-187	Dry	2020-09-24	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Minor sediment build up and severe overgrowth	Outfall in average condition
OF-196	Dry	2020-09-24	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Erosion	-	-	-	-	Minor soil erosion	Pipe in average condition
OF-198	Dry	2020-09-24	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Moderate sediment build up and moderate overgrowth	Pipe in average condition
OF-72	Dry	2020-09-24	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Moderate sediment build up and moderate overgrowth	Pipe in average condition
OF-199	Dry	2020-09-24	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Moderate sediment build up and severe overgrowth	Pipe partially buried
OF-154	Dry	2020-09-24	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Moderate sediment build up and moderate overgrowth	Pipe mostly buried
OF-161	Dry	2020-09-24	Weston & Sampson	Inspected	None	-	Yes	6	Excessive Sediment	-	-	-	-	Excessive Sediment Excessive Vegetation	-	-	-	-	Moderate sediment build up and moderate overgrowth	Pipe in average condition
OF-62	Dry	2020-09-24	Weston & Sampson	Inspected	Trickling	1	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Pipe in fair condition
OF-93	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Pipe in average condition, rebar exposed on headwall
OF-94	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Erosion	-	-	-	-	Minor soil erosion	Pipe in average condition
OF-75	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Erosion	-	-	-	-	Minor soil erosion	Pipe in average condition
OF-76	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Erosion	-	-	-	-	Minor soil erosion	Pipe in average condition
OF-85	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Erosion	-	-	-	-	Moderate erosion	Pipe in fair condition
OF-86	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Erosion	-	-	-	-	Minor erosion	Pipe in fair condition
OF-97	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Outfall partially buried, fair condition
OF-157	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment Erosion	-	-	-	-	Minor erosion, minor overgrowth	Pipe in good condition
OF-299	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Pipe in fair condition, spalling on headwall
OF-300	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Discoloration of Pipe	-	-	-	-	Orange stain on rocks and pipe	Pipe in fair condition
OF-302	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Debris build up at outfall	Appears to be an inlet to drainage system? Pipe in fair condition
OF-301	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Debris in pipe	Look like inlet to drainage system? Pipe in fair condition, crack in headwall
OF-306	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Pipe in fair condition
OF-317	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Pipe in fair condition, moderate sediment build up
OF-307	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Pipe in fair condition, mostly buried
OF-295	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Some debris at outlet
OF-340	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Pipe in fair condition, could not access at outfall inspected at US structure
OF-293	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Pipe in fair condition
OF-292	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Moderate sediment build up	Pipe in fair condition with end of pipe broken, headwall collapsed
OF-289	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Fair condition, partly buried
OF-288	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Erosion	-	-	-	-	Minor soil erosion	Pipe in good condition, head has partially collapsed
OF-287	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Outfall mostly buried
OF-303	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Outfall mostly buried
OF-304	Dry	2020-09-29	Weston & Sampson	Inspected	None	-	No													

Tewksbury, MA - Outfall Inspection Results																				
Outfall ID	Has there been rainfall in the past 24 hours?	Inspection Date	Inspector	Inspection Status	Description of Flow	Flow Rate	Submerged	Height Above Invert	Discharge Point Observation(s)	Color (Discharge Point)	Foatables (Discharge Point)	Odor (Discharge Point)	Turbidity (Discharge Point)	Downstream Observation(s)	Color (Downstream)	Foatables (Downstream)	Odor (Downstream)	Turbidity (Downstream)	Other Observation	General Comments
OF-259	Dry	2020-10-02	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in average condition
OF-257	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition, rebar exposed at end of pipe
OF-256	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation Poor Pool Quality	-	-	-	-	Excessive Vegetation Poor Pool Quality	-	-	-	-	-	Pipe in fair condition, moderate overgrowth
OF-254	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	Discoloration of Pipe	-	-	-	-	Algae Poor Pool Quality	-	-	-	-	-	Pipe in poor condition, moderate corrosion and end of pipe is broken
OF-266	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment Excessive Vegetation	-	-	-	-	-	Pipe in fair condition
OF-263	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Severe sediment build up, pipe almost completely buried
OF-265	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in average condition
OF-353	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in good condition
OF-249	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Moderate overgrowth downstream
OF-261	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	-	-	-	-	-	-	Pipe mostly buried
OF-253	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Pipe in average condition
OF-252	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment Excessive Vegetation	-	-	-	-	Excessive Sediment	-	-	-	-	-	Pipe in average condition
OF-104	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Moderate overgrowth
OF-91	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Pipe in average condition
OF-92	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Pipe in average condition
OF-88	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Outfall mostly buried
OF-169	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Sediment Erosion	-	-	-	-	-	Minor soil erosion, minor sediment build up downstream
OF-83	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	-	-	-	-	-	-	Outfall buried, inspected at upstream manhole
OF-87	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Minor corrosion of pipe
OF-85	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition, moderate corrosion
OF-79	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Minor soil erosion
OF-124	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	-	-	-	-	-	-	Minor sediment build up
OF-82	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Moderate sediment build up
OF-80	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Moderate sediment build up downstream, likely from new construction
OF-306	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	Poor Pool Quality	-	-	-	-	Poor Pool Quality	-	-	-	-	-	Pipe in average condition
OF-304	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Moderate sediment build up and moderate overgrowth
OF-308	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition, partially buried
OF-301	Dry	2020-10-05	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition, CMP beginning to rust. Appears to be inlet to drainage system
OF-183	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Pipe in average condition, partial drainage system
OF-180	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Minor soil erosion
OF-3010	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	-	-	-	-	-	-	Minor overgrowth downstream, trash downstream
OF-185	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Screen across outfall with some vegetation growth
OF-184	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	-	-	-	-	-	-	Moderate overgrowth and moderate sediment build up
OF-115	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	-	-	-	-	-	-	Pipe partially buried
OF-121	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Moderate sediment build up
OF-120	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	-	-	-	-	-	-	Moderate sediment build up
OF-118	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Trash (Plastic chips) downstream of outfall
OF-119	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe mostly buried
OF-117	Dry	2020-10-06	Weston & Sampson	Inspected	Trickling	1	No	-	-	-	-	-	-	-	-	-	-	-	-	Stone drainage outlet. Good condition
OF-116	Dry	2020-10-06	Weston & Sampson	Inspected	Trickling	1	No	-	Foatables	-	Oil Sheen, High	-	-	-	-	-	-	-	-	Stone drainage outlet
OF-3028	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	-	-	-	-	-	-	Pipe in good condition. Not enough flow to sample. Should inspect along with OF-117 for potential illicit discharge
OF-3084	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Moderate overgrowth
OF-125	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Moderate overgrowth
OF-123	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in poor condition. Outfall buried, inspected at upstream CB
OF-122	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	-	-	-	-	-	-	Moderate overgrowth and debris at outlet
OF-178	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	Discoloration of Pipe	-	-	-	-	-	-	-	-	-	-	Moderate overgrowth and debris at outlet
OF-200	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment Excessive Vegetation	-	-	-	-	Excessive Sediment Excessive Vegetation	-	-	-	-	-	Discoloration of Pipe
OF-25	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Sediment at pipe, and around the area. Debris near pipe
OF-26	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Where the outfall is mapped seems to be an inlet, inspection done at suspected outfall
OF-35	Dry	2020-10-06	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	-	-	-	-	-	-	Severe overgrowth
OF-2	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Minor soil erosion
OF-8	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in average condition. There are two outfall next to this pipe that are all mapped as one outfall
OF-10	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	Yes	12	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Pipe in fair condition
OF-9	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment Excessive Vegetation	-	-	-	-	Excessive Sediment Excessive Vegetation	-	-	-	-	-	Outfall completely submerged, inspected at upstream CB
OF-4	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Moderate overgrowth and moderate sediment build up
OF-3	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	Yes	4	-	-	-	-	-	-	-	-	-	-	-	Moderate soil erosion
OF-3005	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Pipe in fair condition, partially crushed CMP
OF-1	Dry	2020-10-07	Weston & Sampson	Inspected	Trickling	1	No	-	Excessive Sediment Excessive Vegetation	-	-	-	-	Excessive Sediment Excessive Vegetation	-	-	-	-	-	Moderate soil erosion
OF-30	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Moderate overgrowth and debris downstream of pipe
OF-14	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Moderate sediment build up
OF-12	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation Erosion	-	-	-	-	-	Minor soil erosion, moderate overgrowth
OF-31	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment Excessive Vegetation	-	-	-	-	Excessive Sediment	-	-	-	-	-	Moderate overgrowth
OF-17	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Debris downstream of pipe, moderate overgrowth
OF-15	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Pipe in fair condition
OF-18	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Minor soil erosion
OF-19	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Erosion	-	-	-	-	-	Severe overgrowth
OF-20	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Minor soil erosion, moderate sediment build up
OF-22	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Pipe in fair condition, headwall cracking
OF-23	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Moderate soil erosion
OF-6	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Moderate sediment build up
OF-27	Dry	2020-10-07	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment Excessive Vegetation	-	-									

Tewksbury, MA - Outfall Inspection Results																				
Outfall ID	Has there been rainfall in the past 24 hours?	Inspection Date	Inspector	Inspection Status	Description of Flow	Flow Rate	Submerged	Height Above Invert	Discharge Point Observation(s)	Color (Discharge Point)	Foatables (Discharge Point)	Odor (Discharge Point)	Turbidity (Discharge Point)	Downstream Observation(s)	Color (Downstream)	Foatables (Downstream)	Odor (Downstream)	Turbidity (Downstream)	Other Observation	General Comments
OF-3015	Dry	2020-10-08	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Moderate sediment build up, some leaves built up in end of pipe	Pipe in good condition
OF-3017	Dry	2020-10-08	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in good condition
OF-3016	Dry	2020-10-08	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	-	-	-	-	-	Moderate sediment build up in pipe	Partially buried, pipe in fair condition
OF-3059	Dry	2020-10-08	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	Moderate soil erosion	Pipe in poor condition, rebar exposed and last segment of pipe broken
OF-241	Dry	2020-10-08	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe clogged with debris. Potential inlet?
OF-28	Dry	2020-10-08	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	-	-	-	-	-	-	Sediment almost completely clogging pipe in DMH
OF-32	Dry	2020-10-08	Weston & Sampson	Inspected	Trickling	1	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	Moderate overgrowth	Pipe in good condition
OF-317	Dry	2020-10-08	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	-	-	-	-	-	-	Pipe mostly buried
OF-3000	Dry	2020-10-08	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Sediment   Excessive Vegetation	-	-	-	-	-	Moderate overgrowth
OF-3001	Dry	2020-10-08	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	Moderate overgrowth downstream	Pipe in good condition
OF-3052	Dry	2020-10-08	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	Minor soil erosion	Pipe in fair condition
OF-3080	Dry	2020-10-08	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	-	-	-	-	-	Moderate sediment build up	Pipe in fair condition, last section of pipe broken
OF-3061	Dry	2020-10-08	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Erosion	-	-	-	-	Minor overgrowth	Pipe in fair condition
OF-362	Dry	2020-10-08	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	-	-	-	-	-	Minor overgrowth	Pipe in fair condition
OF-3090	Dry	2020-10-08	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	Rocks built up in inlet of pipe	Pipe in fair condition
OF-363	Dry	2020-10-08	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	-	-	-	-	-	-	Pipe mostly buried
OF-365	Dry	2020-10-08	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	Severe overgrowth	Pipe in average condition
OF-364	Dry	2020-10-08	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	Severe overgrowth	Pipe in average condition
OF-3057	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	Yes	3	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	Minor overgrowth	Pipe in good condition
OF-3058	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	Yes	6	Excessive Sediment   Excessive Vegetation	-	-	-	-	Excessive Sediment   Excessive Vegetation	-	-	-	-	Sediment in pipe, and downstream. Minor overgrowth	Pipe in good condition
OF-3038	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	Yes	2	Excessive Sediment   Excessive Vegetation	-	-	-	-	Excessive Sediment   Excessive Vegetation	-	-	-	-	Minor overgrowth	Pipe in good condition
OF-3038	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	Yes	1	Excessive Sediment   Excessive Vegetation	-	-	-	-	Excessive Sediment   Excessive Vegetation	-	-	-	-	Minor overgrowth	Good condition
OF-3038	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	Yes	1	Excessive Sediment   Excessive Vegetation	-	-	-	-	Excessive Sediment   Excessive Vegetation	-	-	-	-	Minor over growth	Good condition
OF-45	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Minor sediment	Fair condition mostly buried
OF-42	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	Minor overgrowth	Like new condition
OF-43	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	Moderate overgrowth	Good Condition
OF-41	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	Minor overgrowth	Good Condition
OF-47	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	Yes	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition	Inspected at upstream manhole. Suspected underground stream tie in.
OF-61	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	Suspected inlet	Seems to be an inlet from a vegetated swale.
OF-3006	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	Minor overgrowth	Good condition 12" RCP
OF-3096	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment   Excessive Vegetation	-	-	-	-	Excessive Sediment   Excessive Vegetation	-	-	-	-	Minor overgrowth	24" RCP good condition
OF-44	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Moderate soil build up and debris	18" RCP fair condition
OF-3090	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Minor sediment in pipe	24" RCP good condition
OF-3092	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	Minor overgrowth	24" RCP good condition
OF-3094	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment   Excessive Vegetation	-	-	-	-	Excessive Sediment   Excessive Vegetation	-	-	-	-	Minor soil build up	24" RCP GOOD CONDITION
OF-3056	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	-	-	-	-	-	-	-	-	-	-	-	-	Moderate overgrowth	Outfall inlet from detention basin
OF-3088	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	Minor soil build up	24" RCP GOOD CONDITION
OF-3089	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	Moderate overgrowth	Pipe outlets into detention pond
OF-3055	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	Pipe is good	18" HDPE GOOD CONDITION.
OF-3054	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	Moderate overgrowth	18" HDPE GOOD CONDITION.
OF-3083	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	Minor overgrowth	18" RCP fair condition
OF-3053	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	Minor overgrowth	18" RCP fair condition
OF-3082	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	Minor overgrowth	18" RCP fair condition
OF-3013	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment   Excessive Vegetation	-	-	-	-	Excessive Sediment   Excessive Vegetation	-	-	-	-	Minor sediment build up	12" RCP good condition
OF-3012	Dry	2020-10-09	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Minor overgrowth	12" RCP fair condition
OF-3029	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	Yes	10	Excessive Vegetation   Pet Waste	-	-	-	-	Excessive Sediment	-	-	-	-	Mostly buried	Mostly buried
OF-3021	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	Yes	10	-	-	-	-	-	-	-	-	-	-	Pet waste bag downstream of outlet	Pipe in fair condition, mostly submerged
OF-3077	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	Yes	14	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	Minor overgrowth	Pipe in fair condition, mostly submerged
OF-375	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Moderate overgrowth	Mostly submerged, pipe in fair condition
OF-374	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	Moderate sediment build up	Pipe in fair condition
OF-378	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Minor overgrowth	Poor condition, CMP rusted. Partially buried
OF-379	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Minor sediment build up	Fair condition, some leaves in toilet
OF-377	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	Moderate overgrowth downstream	Pipe in average condition
OF-373	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	Yes	12	Excessive Sediment   Excessive Vegetation	-	-	-	-	Excessive Sediment   Excessive Vegetation	-	-	-	-	Moderate overgrowth downstream	Pipe in fair condition
OF-3036	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	Moderate sediment build up and minor overgrowth	Outfall in fair condition
OF-3037	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	-	-	-	-	-	-	Possible inlet to drainage system? Pipe in fair condition
OF-50	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Minor overgrowth	Pipe in fair condition, rocks and debris in pipe
OF-49	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Moderate sediment build up	Pipe in good condition. Discharges to detention basin to unamned wetland
OF-51	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	Moderate sediment build up	Pipe in good condition, partially buried
OF-52	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	Moderate overgrowth	Pipe in good condition
OF-53	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	Moderate overgrowth downstream	Pipe in good condition
OF-54	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	Yes	4	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Could not locate outfall, inspected at upstream DMH. Pipe in good condition
OF-40	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	-	-	-	-	-	Moderate overgrowth	Outfall located in a ditch, must not drain well
OF-39	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment   Excessive Vegetation	-	-	-	-	Excessive Sediment   Excessive Vegetation	-	-	-	-	Moderate overgrowth, moderate sediment build up	The end of pipe is almost completely buried. Homeowner pointed out hole in the pipe which floods their yard after rain which sometimes carries trash from drain system.
OF-55	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment   Excessive Vegetation	-	-	-	-	Excessive Sediment   Excessive Vegetation	-	-	-	-	Moderate overgrowth, moderate sediment build up	Pipe in average condition
OF-56	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	Moderate overgrowth and moderate sediment build up	Mostly buried, pipe in fair condition
OF-3074	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Outfall in fair condition
OF-48	Dry	2020-10-15	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in average condition
OF-3030	Dry	2020-10-15	Weston &																	

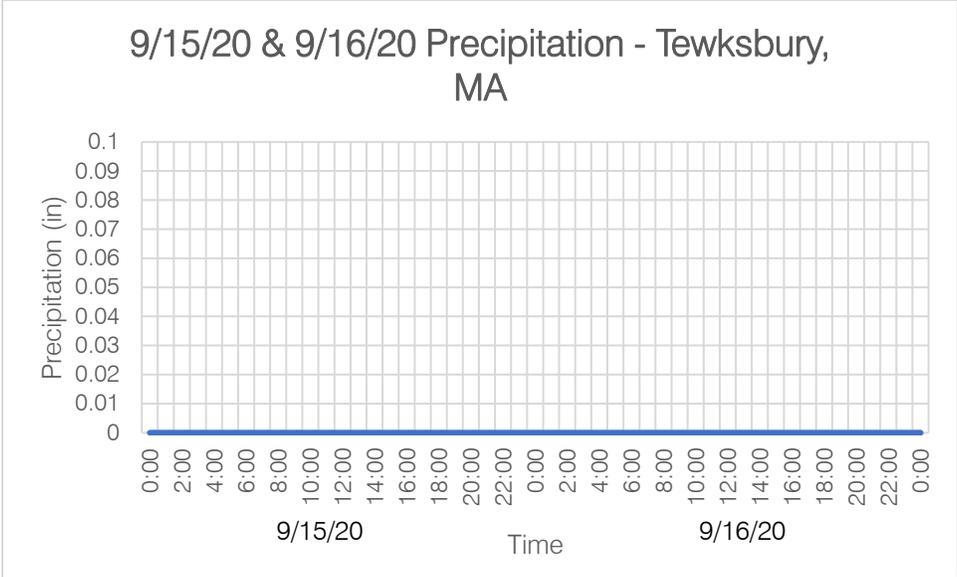
Tewksbury, MA - Outfall Inspection Results																					
Outfall ID	Has there been rainfall in the past 24 hours?	Inspection Date	Inspector	Inspection Status	Description of Flow	Flow Rate	Submerged	Height Above Invert	Discharge Point Observation(s)	Color (Discharge Point)	Foatables (Discharge Point)	Odor (Discharge Point)	Turbidity (Discharge Point)	Downstream Observation(s)	Color (Downstream)	Foatables (Downstream)	Odor (Downstream)	Turbidity (Downstream)	Other Observation	General Comments	
OF-222	Dry	2020-10-19	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	Moderate erosion downstream	Pipe in fair condition. Moderate erosion under pipe and headwall	
OF-4405	Dry	2021-05-13	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Moderate soil erosion	-	-	-	-	Moderate soil erosion	Pipe in poor condition, bottom of CMP completely rusted	
OF-4314	Dry	2021-05-13	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	Moderate soil erosion	Pipe in average condition	
OF-4301	Dry	2021-05-13	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in good condition	
OF-4234	Dry	2021-05-13	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition	
OF-4235	Dry	2021-05-13	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition	
OF-4324	Dry	2021-05-13	Weston & Sampson	Inspected	None	-	Yes	10	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Outfall buried, inspected at upstream manhole	
OF-4415	Dry	2021-05-13	Weston & Sampson	Inspected	None	-	Yes	12	-	-	-	-	-	-	-	-	-	-	-	Outfall mostly submerged/buried	
OF-4462	Dry	2021-05-14	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Outfall buried, inspected at upstream catch basin. Outlet of catch basin submerged not draining properly	
OF-4463	Dry	2021-05-14	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition	
OF-4581	Dry	2021-05-14	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Outfall buried, inspected at upstream CB	
OF-4603	Dry	2021-05-14	Weston & Sampson	Inspected	None	-	Yes	12	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Pipe almost completely buried	
OF-4447	Dry	2021-05-14	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Pipe completely submerged, property owner said this outfall floods after storm events	
OF-4296	Dry	2021-05-14	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation Erosion	-	-	-	-	-	Pipe in average condition	
OF-4304	Dry	2021-05-14	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Pipe in good condition	
OF-4012	Dry	2021-05-20	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Scale discharge point	
OF-4024	Dry	2021-05-20	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Pipe in good condition	
OF-4032	Dry	2021-05-20	Weston & Sampson	Inspected	None	-	Yes	4	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Pipe in fair condition	
OF-4055	Dry	2021-05-20	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition	
OF-4054	Dry	2021-05-20	Weston & Sampson	Inspected	None	-	Yes	10	Excessive Vegetation	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition, rebar exposed	
OF-4053	Dry	2021-05-20	Weston & Sampson	Inspected	None	-	Yes	10	Excessive Vegetation	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition, mostly submerged	
OF-4007	Dry	2021-05-20	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition and mostly submerged	
OF-4056	Dry	2021-05-20	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition, inspected at upstream CB, pipe buried	
OF-4057	Dry	2021-05-20	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition, debris built up at outfall	
OF-4059	Dry	2021-05-20	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition	
OF-4058	Dry	2021-05-20	Weston & Sampson	Inspected	None	-	Yes	6	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Pipe in fair condition	
OF-4088	Dry	2021-05-20	Weston & Sampson	Inspected	Trickling	0.5	No	-	Excessive Sediment Excessive Vegetation	-	-	-	-	Excessive Sediment Excessive Vegetation	-	-	-	-	-	-	Pipe in good condition. Actual location end of drainage pipe
OF-4095	Dry	2021-05-20	Weston & Sampson	Inspected	Moderate	10	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Pipe buried, inspected and sampled at US CB	
OF-4097	Dry	2021-05-20	Weston & Sampson	Inspected	Moderate	3	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Pipe in good condition	
OF-4099	Dry	2021-05-20	Weston & Sampson	Inspected	Moderate	3	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in average condition	
OF-4101	Dry	2021-05-20	Weston & Sampson	Inspected	Moderate	3	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition	
OF-4102	Dry	2021-05-21	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	CNL outfall, inspected and sampled at upstream CB	
OF-4109	Dry	2021-05-21	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Algae	-	-	-	-	-	Pipe in good condition	
OF-4105	Dry	2021-05-21	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Moderate algae growth downstream	
OF-4129	Dry	2021-05-21	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe mostly buried	
OF-4128	Dry	2021-05-21	Weston & Sampson	Inspected	Moderate	5	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in good condition	
OF-4114	Dry	2021-05-21	Weston & Sampson	Inspected	Trickling	1	Yes	8	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Pipe in good condition	
OF-4113	Dry	2021-05-21	Weston & Sampson	Inspected	None	15	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Debris built up at outfall	
OF-4135	Dry	2021-05-21	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Pipe in good condition	
OF-4146	Dry	2021-05-21	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition, partially buried in debris	
OF-4148	Dry	2021-05-21	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition, could not locate, inspected at upstream CB	
OF-4160	Dry	2021-05-21	Weston & Sampson	Inspected	None	-	No	-	Algae	-	-	-	-	Algae	-	-	-	-	-	Pipe in fair condition, partially buried, CMP beginning to rust	
OF-4184	Dry	2021-05-21	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in good condition	
OF-4187	Dry	2021-05-21	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Moderate algae growth	
OF-4193	Dry	2021-05-21	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in good condition	
OF-4199	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	Yes	4	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Pipe in good condition	
OF-4406	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Color (Water)	Brown, Light Color in Sample Bottle	-	-	-	-	Fallen debris blocks outfall pipe. Residents are dumping grass on top of pipe.	
OF-4408	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	Fallen debris on pipe	
OF-4418	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation Poor Pool Quality	-	-	-	-	Excessive Vegetation Poor Pool Quality	-	-	-	-	-	No evidence of illicit discharges.	
OF-4202	Dry	2021-06-01	Weston & Sampson	Inspected	Moderate	5	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Minor erosion in downstream channel. No evidence of illicit discharges.	
OF-4424	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Sediment build up in pipe. Lots of vegetation growing in pool and surrounding pipe.	
OF-4426	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	18" RCP. Good condition.	
OF-4197	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition	
OF-4431	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	Yes	2	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Minor debris built up at outfall	
OF-4228	Dry	2021-06-01	Weston & Sampson	Inspected	Trickling	3	Yes	10	Algae	-	-	-	-	-	-	-	-	-	-	No visual or olfactory evidence of illicit discharges. Find outfall pipe and clear debris.	
OF-4434	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment Excessive Vegetation	-	-	-	-	Excessive Sediment Excessive Vegetation	-	-	-	-	-	Can not locate pipe. Likely to be submerged. Can not see pipe in upstream basin. No flow	
OF-4229	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Minor debris built up at outfall	
OF-4456	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	Yes	-	Excessive Sediment Excessive Vegetation Foatables	-	Litter, High	-	-	Excessive Vegetation Foatables	-	Litter, Low	-	-	-	No evidence of illicit discharges.	
OF-4231	Dry	2021-06-01	Weston & Sampson	Inspected	Moderate	5	No	-	-	-	-	-	-	Excessive Vegetation Erosion	-	-	-	-	-	Can not locate pipe. Likely to be submerged. Can not see pipe in upstream basin. No flow	
OF-4486	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	Yes	3	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition, last section beginning to disconnect from rest of pipe	
OF-4487	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	Yes	2	-	-	-	-	-	-	-	-	-	-	-	No evidence of illicit discharges.	
OF-4236	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	24" rcp good condition	
OF-4533	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	Yes	1	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Outfall for dentition basin. No flow. Stagnant water 1" deep in of pipe. No visible structural defects	
OF-4489	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	-	-	-	-	-	-	Inspected at upstream DMH. Outfall likely buried. Pipe in good condition	
OF-4500	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Thick vegetation surrounding the outfall and down stream. No evidence of illicit discharges.	
OF-4501	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	24" rcp no flow. Good condition	
OF-4232	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Inlet pipe is being blocked by leaves and debris.	
OF-4502	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	12" rcp. Good condition, suspected inlet. Evidence of flow entering pipe and traveling towards the catch basin. Only one pipe entering the cb, and it is the inlet pipe.	
OF-4503	Dry	2021-06-01	Weston & Sampson	Inspected	Moderate	10	No	-	-	-	-	-	-	-	-	-	-	-	-	Submerged at outfall no evidence of illicit discharges in upstream structure or downstream, of mapped outfall	
OF-4233	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	-												

Tewksbury, MA - Outfall Inspection Results																					
Outfall ID	Has there been rainfall in the past 24 hours?	Inspection Date	Inspector	Inspection Status	Description of Flow	Flow Rate	Submerged	Height Above Invert	Discharge Point Observation(s)	Color (Discharge Point)	Floatables (Discharge Point)	Odor (Discharge Point)	Turbidity (Discharge Point)	Downstream Observation(s)	Color (Downstream)	Floatables (Downstream)	Odor (Downstream)	Turbidity (Downstream)	Other Observation	General Comments	
OF-4507	Dry	2021-06-01	Weston & Sampson	Inspected	Moderate	5	No	-	-	-	-	-	-	-	-	-	-	-	-	No evidence of illicit water is clear and odorless	36" rcp pipe flowing. No visible structural defects.
OF-4205	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Pipe in average condition	Pipe in average condition
OF-4267	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	Debris built up at outfall blocking flow	Pipe in fair condition
OF-4269	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	-	Pipe in poor condition, severe corrosion and failing headwall
OF-4508	Dry	2021-06-01	Weston & Sampson	Inspected	None	12	Yes	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Sediment blocks flow. Surcharged due to sediment block, no evidence of illicit discharges	12" rcp. Headwall is tipping over.
OF-4275	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	-	Pipe in average condition
OF-4511	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Homeowner has to clear channel out to keep water flowing. Sand from the street clogs it yearly. No evidence	Pipe in fair condition
OF-4287	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	-	Pipe in good condition
OF-4512	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	Odor	-	-	Organic, Low	-	Odor	-	-	Organic, Low	-	-	Smells fairly bad like organics.	Inspected at upstream catch basin. Could not locate outfall. 12" rcp no flow.
OF-4288	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	-	Pipe in average condition
OF-4514	Dry	2021-06-01	Weston & Sampson	Inspected	Trickling	1	No	-	-	-	-	-	-	Discoloration of Pipe	-	-	-	-	-	Pipe is whitecaps shiny	18" RCP NONVISIBLE STRUCTURAL DEFECTS
OF-4289	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	Some trash and debris downstream of outfall	Pipe in fair condition
OF-4291	Dry	2021-06-01	Weston & Sampson	Inspected	Trickling	1	No	-	Excessive Vegetation/Pet Waste	-	-	-	-	Excessive Vegetation/Pet Waste	-	-	-	-	-	-	Pipe in average condition
OF-4516	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Color (Water)	Light Green/Teal/White, Light Color in Sample Bottle	-	-	-	-	No evidence from pipe	12" rcp last segment is unconnected should be resupported and fixed.
OF-4517	Dry	2021-06-01	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	No evidence of illicit discharges	18" rcp, standing water in mouth of outfall. No water dow
OF-4306	Dry	2021-06-02	Weston & Sampson	Inspected	Moderate	3	Yes	10	Color (Water)/Poor Pool Quality	Brown, Light Color in Sample Bottle	-	-	-	Color (Water)/Excessive Vegetation/Poor Pool Quality	Brown, Light Color in Sample Bottle	-	-	-	-	Foam in discharge and downstream pool	Pipe in fair condition
OF-4519	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	-	No evidence in upstream catch basin.
OF-4292	Dry	2021-06-02	Weston & Sampson	Inspected	Moderate	3	Yes	10	-	-	-	-	-	-	-	-	-	-	-	-	Pipe mostly submerged, sampled at upstream catch basin. Pipe in fair condition. Homeowner mentioned flooding issues at upstream catch
OF-4523	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	Poor Pool Quality	-	-	-	-	Poor Pool Quality	-	-	-	-	-	Stagnant water just down stream of the outfall. No evidence of illicit discharges from the outfall.	12" rcp pipe. No flow
OF-4525	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	Sediment built up no evidence of illicit discharges	12" CMP. Fair condition, no headwall. 25% sediment build up
OF-4298	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition, headwall partially collapsed
OF-4544	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	12" CMP. No evidence of illicit discharges.	Outfall could not be located. Potentially buried or mapped incorrectly. The location of outfall on map is where a sump pump pipe discharges. Inspected at upstream catch basin.
OF-4299	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	-	Pipe in average condition
OF-4543	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	Yes	2	Algae	-	-	-	-	Algae	-	-	-	-	-	Minor sediment build up. Only when caused by bacteria in down stream pool	18" rcp, no visual defects.
OF-4301	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition, partially buried
OF-4545	Dry	2021-06-02	Weston & Sampson	Inspected	Moderate	15	Yes	16	-	-	-	-	-	-	-	-	-	-	-	-	Flow enters catch basin, then leaves via a 18" CMP. Outfall is mapped at an inlet. CHN true outfall. Sampled and inspected at catch basin.
OF-4313	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	-	Debris surrounding outfall
OF-4319	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition, moderate corrosion
OF-4546	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	No evidence of illicit discharges
OF-4547	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	18" rcp pipe 50% sediment built up. No visual structural defects
OF-4320	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	Yes	10	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in good condition, mostly submerged
OF-4548	Dry	2021-06-02	Weston & Sampson	Inspected	Trickling	2	No	-	-	-	-	-	-	-	-	-	-	-	-	-	18" rcp. Light flow 1-2 gpm. No evidence of illicit structural defects
OF-4357	Dry	2021-06-02	Weston & Sampson	Inspected	Moderate	2	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	-	Pipe in poor condition, bottom of CMP completely rusted out
OF-4549	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	Yes	10	-	-	-	-	-	-	-	-	-	-	-	-	No odor or evidence of illicit discharges
OF-4550	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	-	-	-	-	-	-	-	12" rcp no visually defects
OF-4328	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Completely submerged
OF-4551	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe likely buried. Inspected at upstream CB
OF-4364	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Could not locate outfall inspected at upstream manhole. Sediment 1m manhole and outlet pipe <10%. No structural defects seen in manhole
OF-4553	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in good condition
OF-4365	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	Floatables	-	Litter, Low	-	-	-	-	-	-	-	-	-	No odors or visual indicators
OF-4366	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Surcharged system. Outfall submerged no flow in upstream cb.
OF-4577	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Poor Pool Quality	-	-	-	-	-	-	Pipe in good condition
OF-4577	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment	-	-	-	-	Excessive Sediment	-	-	-	-	-	-	Channel needs to be reestablished. Needs to be dug out. No evidence of illicit discharges.
OF-4379	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	-	Outfall pipes buried headwall located. No flow in upstream catch basins
OF-4631	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in good condition
OF-4386	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	-	-	-	-	-	-	-	No evidence of illicit discharges at outfall or downstream.
OF-4388	Dry	2021-06-02	Weston & Sampson	Inspected	Trickling	1	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	-	Outfall is in culvert. No flow 18"
OF-4574	Dry	2021-06-02	Weston & Sampson	Inspected	Trickling	1	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe mostly buried, in fair condition
OF-4389	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	Algae	-	-	-	-	Algae/Excessive Vegetation	-	-	-	-	-	-	No visual or odor evidence
OF-4588	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	Excessive Sediment/Excessive Vegetation	-	-	-	-	Excessive Sediment/Excessive Vegetation	-	-	-	-	-	-	Flow. 12" rcp structurally sound. Homeowners keep care of it
OF-4390	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in good condition
OF-4027	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	-	Homeowner says he cleans out the stream channel. Pipe sometimes backs up. No evidence of illicit discharges
OF-4590	Dry	2021-06-02	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	12" CMP buried. Homeowner dug out pipe.
OF-4598	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Outfall likely buried in yard debris. Inspected at upstream CB, garbage in catch basin sump.
OF-4493	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in good condition
OF-4570	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	No visible structural defects. 8" vcp
OF-4271	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition. Does not discharge to a water body
OF-4559	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition
OF-4274	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in average condition
OF-4286	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in good condition
OF-4359	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	Yes	12	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition
OF-4446	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition
OF-4354	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Pet Waste	-	-	-	-	-	-	Pipe in good condition
OF-4353	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in good condition
OF-4352	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in good condition
OF-4351	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	-	-	-	-	-	-	-	Pipe in good condition
OF-4423	Dry	2021-06-07																			

Tewksbury, MA - Outfall Inspection Results																					
Outfall ID	Has there been rainfall in the past 24 hours?	Inspection Date	Inspector	Inspection Status	Description of Flow	Flow Rate	Submerged	Height Above Invert	Discharge Point Observation(s)	Color (Discharge Point)	Floatables (Discharge Point)	Odor (Discharge Point)	Turbidity (Discharge Point)	Downstream Observation(s)	Color (Downstream)	Floatables (Downstream)	Odor (Downstream)	Turbidity (Downstream)	Other Observation	General Comments	
OF-4122	Dry	2021-06-07	Weston & Sampson	Inspected	Trickling	1	No	-	-	-	-	-	-	-	-	-	-	-	-	-	GEC/CLR Partially submerged
OF-4094	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in good condition
OF-4563	Dry	2021-06-07	Weston & Sampson	Inspected	Trickling	1	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Could not access outfall, inspected and samples at upstream
OF-4169	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	DMH partially submerged
OF-4172	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	GEC/CLR Partially submerged
OF-4168	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	GEC/CLR Partially submerged
OF-4171	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Partially submerged (RCP) GEC/CLR Partially submerged (HDPE) GEC/CLR
OF-4154	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	CNO/DNE-inspected would be upstream CB, dry, likely continue flow to OF-4155 Note from homeowner about town supposedly "closing it off" before
OF-4205	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	-	Pipe in fair condition, dirt and debris built up in invert
OF-4361	Dry	2021-06-07	Weston & Sampson	Inspected	Moderate	3	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Partially submerged GEC/CLR Partially submerged
OF-4322	Dry	2021-06-07	Weston & Sampson	Inspected	Trickling	22	No	-	Color (Water)	Brown, Strong Color in Sample Bottle	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition
OF-4038	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	GEC/CLR To detention Pond
OF-4050	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in poor condition, bottom of CMP rusted out. Outfall likely buried and could not locate, inspected at US CB
OF-4593	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	-	Pipe in good condition, some debris built up at outfall
OF-4191	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	GEC/CLR GEC/CLR
OF-4192	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	Yes	-	-	-	-	-	-	-	-	-	-	-	-	-	buried; obvious standing water Assumed upstream CB on Harrison dry
OF-4138	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	GEC/CLR
OF-4613	Dry	2021-06-07	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition, partially buried
OF-4329	Dry	2021-06-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition. Potential inlet
OF-4331	Dry	2021-06-18	Weston & Sampson	Inspected	None	1	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition
OF-4330	Dry	2021-06-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Outfall likely buried, inspected at upstream catch basin but CB is cracked and could not open. No flow
OF-4312	Dry	2021-06-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Could not locate outfall, inspected at upstream CB
OF-4394	Dry	2021-06-18	Weston & Sampson	Inspected	Trickling	1	No	-	Color (Water)	Orange, Strong Color in Sample Bottle	-	-	-	Algae/Excessive Vegetation	-	-	-	-	-	-	Pipe in good condition
OF-4393	Dry	2021-06-18	Weston & Sampson	Inspected	Moderate	2	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	-	Pipe in good condition
OF-4397	Dry	2021-06-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	-	Pipe in good condition
OF-4395	Dry	2021-06-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Algae	-	-	-	-	-	-	Pipe in good condition
OF-4396	Dry	2021-06-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in average condition
OF-4603	Dry	2021-06-18	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Could not locate outfall, likely buried. Inspected at upstream
OF-4637	Dry	2021-06-18	Weston & Sampson	Inspected	Trickling	1	No	-	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	-	Pipe in average condition CB
OF-4638	Dry	2021-06-18	Weston & Sampson	Inspected	Moderate	2	Yes	4	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition
OF-4039	Dry	2021-06-22	Weston & Sampson	Inspected	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Outfall buried. CNO upstream catch basin for inspection
OF-4630	Dry	2021-06-22	Weston & Sampson	Inspected	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Under construction. Verify outfalls still exist when construction is complete
OF-4162	Dry	2021-06-22	Weston & Sampson	Inspected	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Under construction. Verify outfalls still exist when construction is complete
OF-4422	Dry	2021-06-22	Weston & Sampson	Inspected	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Under construction. Verify outfalls still exist when construction is complete
OF-4130	Dry	2021-06-28	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	-	Could not locate outfall. Severely overgrown at outlet. Inspected at upstream CB. Pipe in fair condition
OF-4127	Dry	2021-06-28	Weston & Sampson	Inspected	Trickling	1	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Could not access outfall, fence in backyard and nobody home. Inspected at upstream CB, pipe in fair condition
OF-382	Dry	2021-06-28	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Could not locate outfall, inspected at two upstream manholes. Manhole assumed to be directly upstream was buried. First picture of DMH at #46, second picture of DMH at #59
OF-4245	Dry	2021-06-28	Weston & Sampson	Inspected	None	-	Yes	4	-	-	-	-	-	Excessive Vegetation	-	-	-	-	-	-	Pipe in average condition
OF-4238	Dry	2021-06-28	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	Erosion	-	-	-	-	-	-	Curb cut at back of parking lot. Severe soil erosion at curb cut and downstream. Poor condition, curb cut
OF-4620	Dry	2021-06-28	Weston & Sampson	Inspected	None	-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Pipe in fair condition. Headwall is leaning over
OF-4412	Dry	2021-06-28	Weston & Sampson	Inspected	None	-	No	-	Excessive Vegetation	-	-	-	-	Excessive Vegetation	-	-	-	-	-	-	Pipe in fair condition, mostly buried. Severe overgrowth at outfall

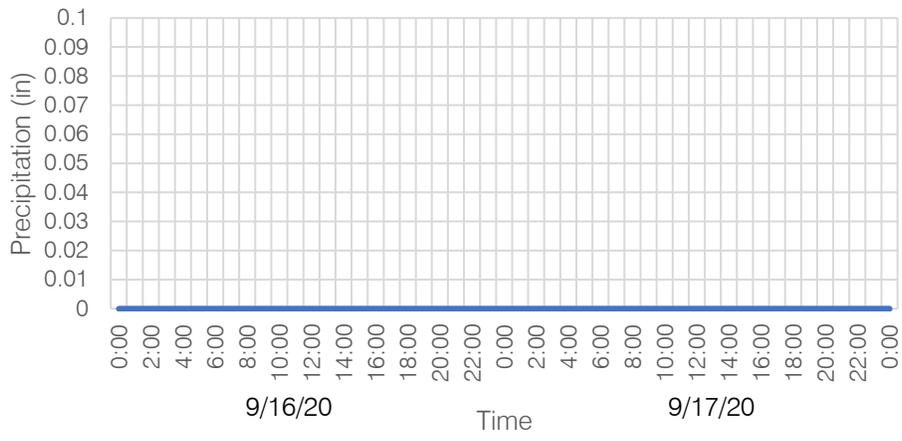
Attachment C

24-Hour Precipitation Totals

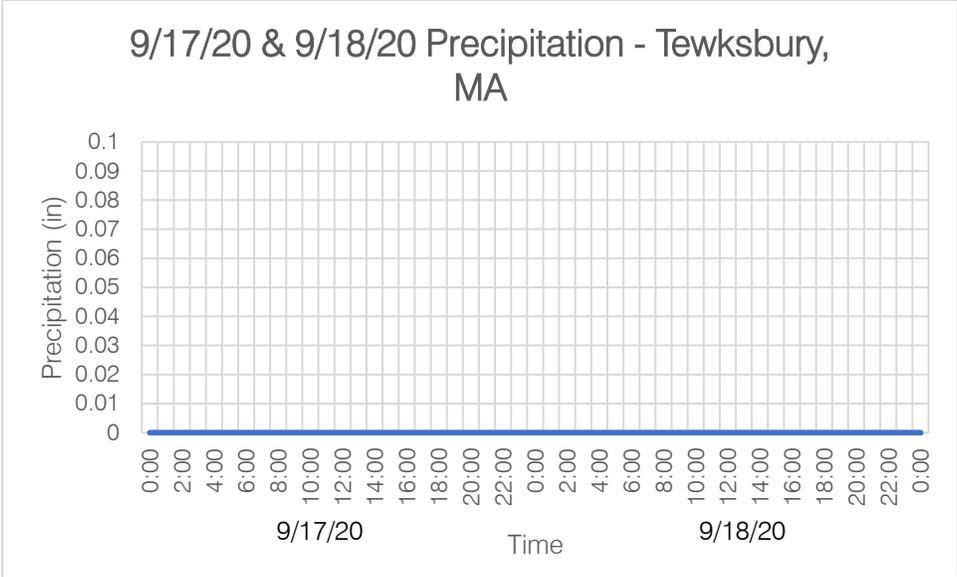


Sampling took place on 9/16/20 between 7:00 am and 4:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).

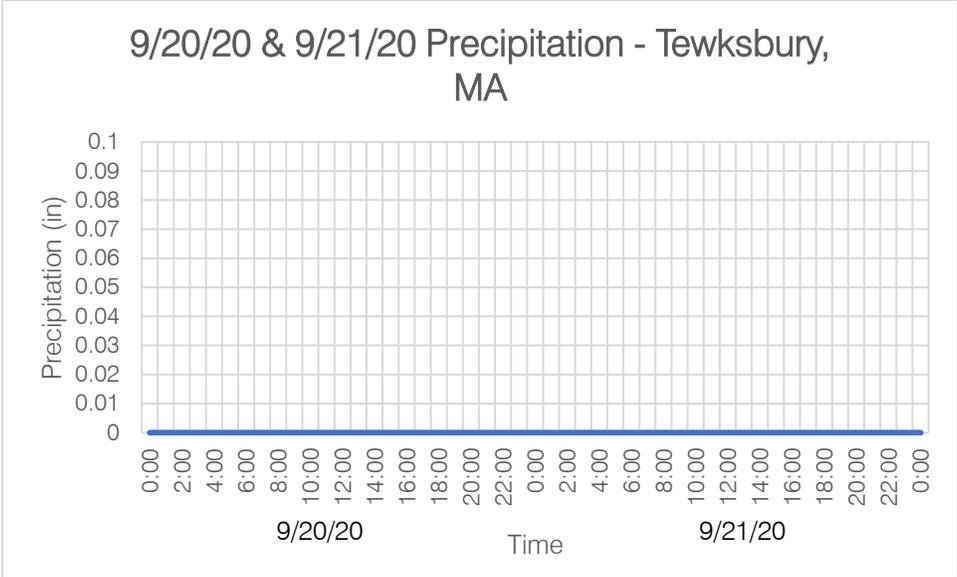
### 9/16/20 & 9/17/20 Precipitation - Tewksbury, MA



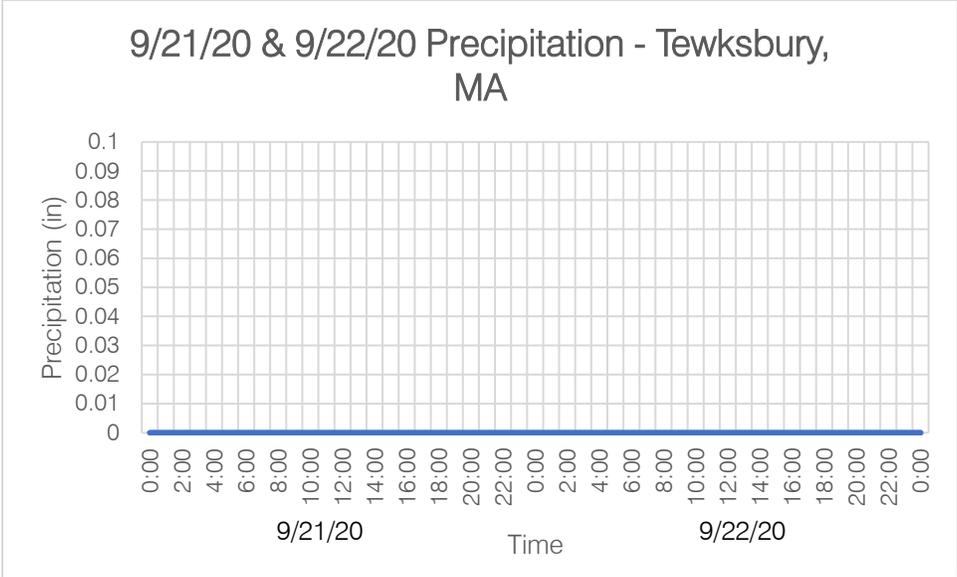
Sampling took place on 9/17/20 between 7:00 am and 4:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).



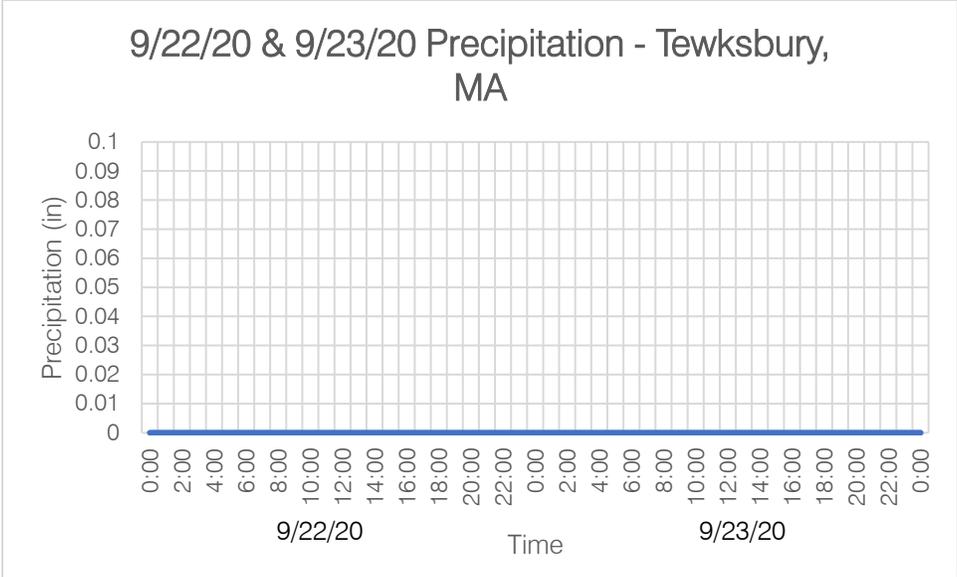
Sampling took place on 9/18/20 between 7:00 am and 4:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).



Sampling took place on 9/21/20 between 7:00 am and 4:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).

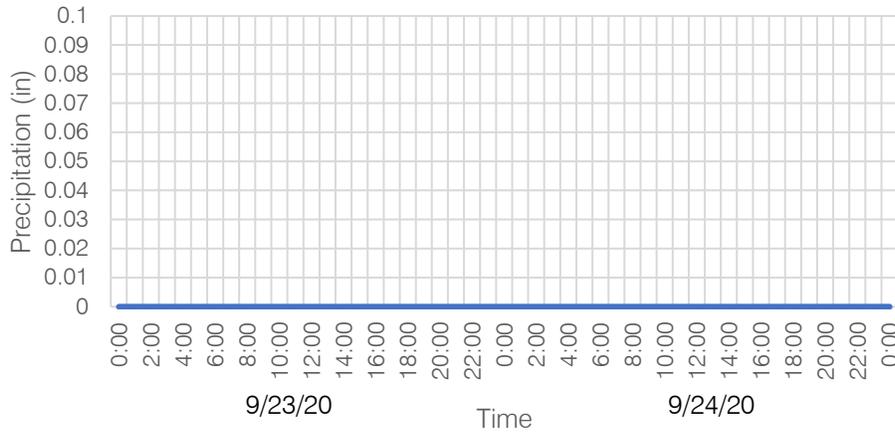


Sampling took place on 9/22/20 between 7:00 am and 4:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).

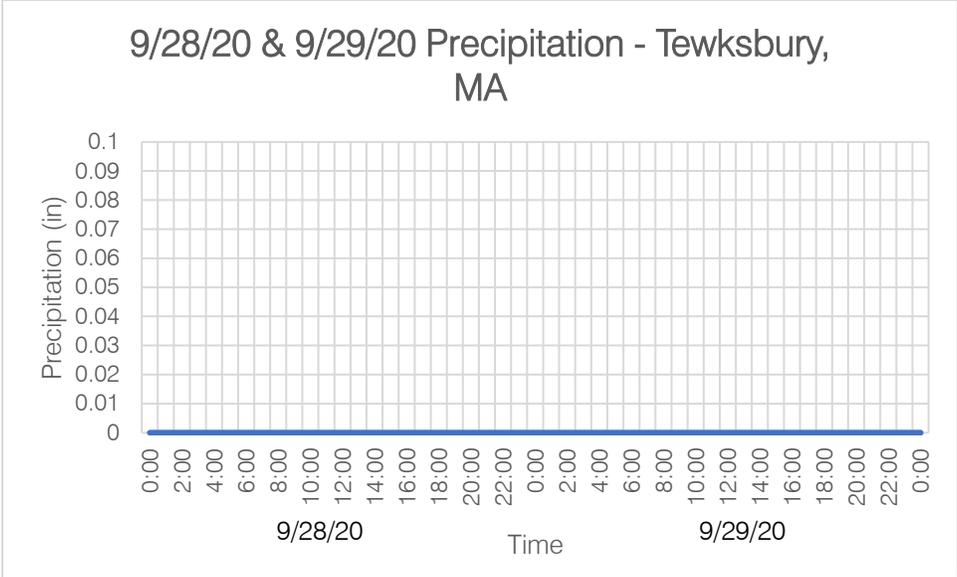


Sampling took place on 9/23/20 between 7:00 am and 4:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).

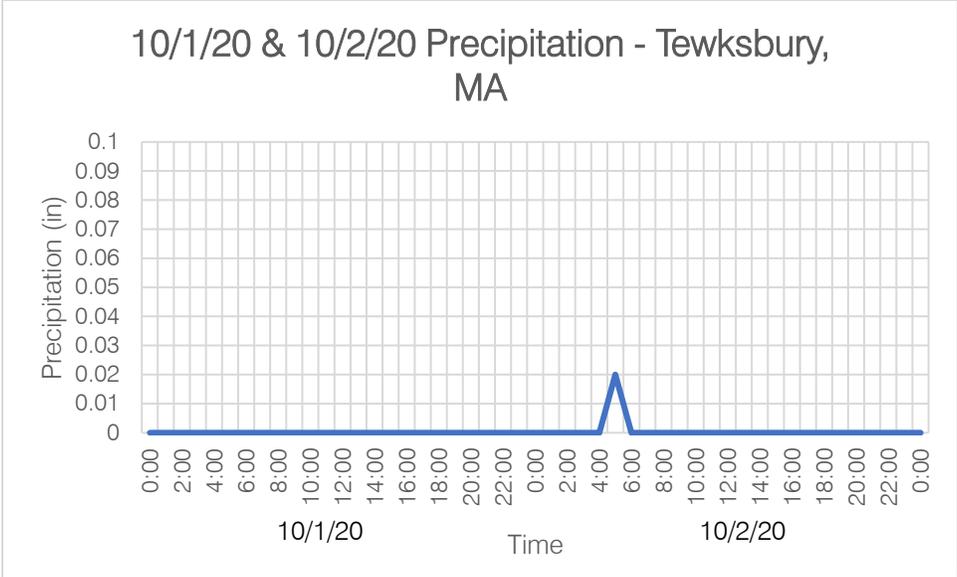
### 9/23/20 & 9/24/20 Precipitation - Tewksbury, MA



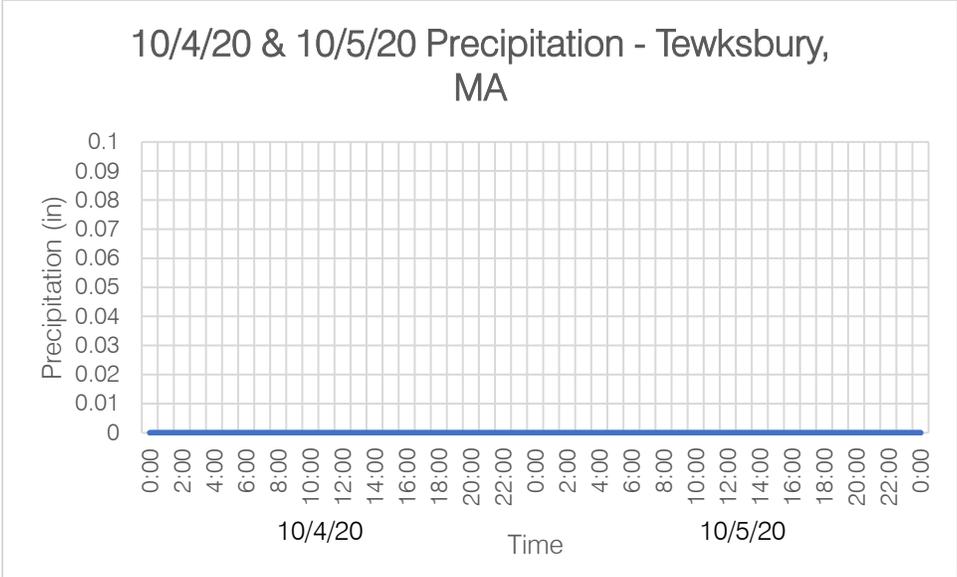
Sampling took place on 9/24/20 between 7:00 am and 4:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).



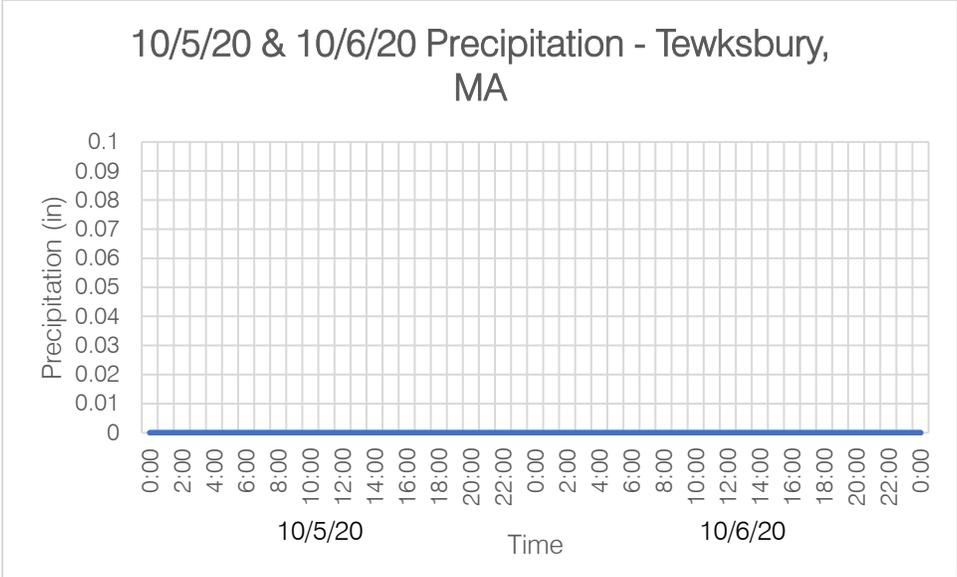
Sampling took place on 9/29/20 between 7:00 am and 4:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).



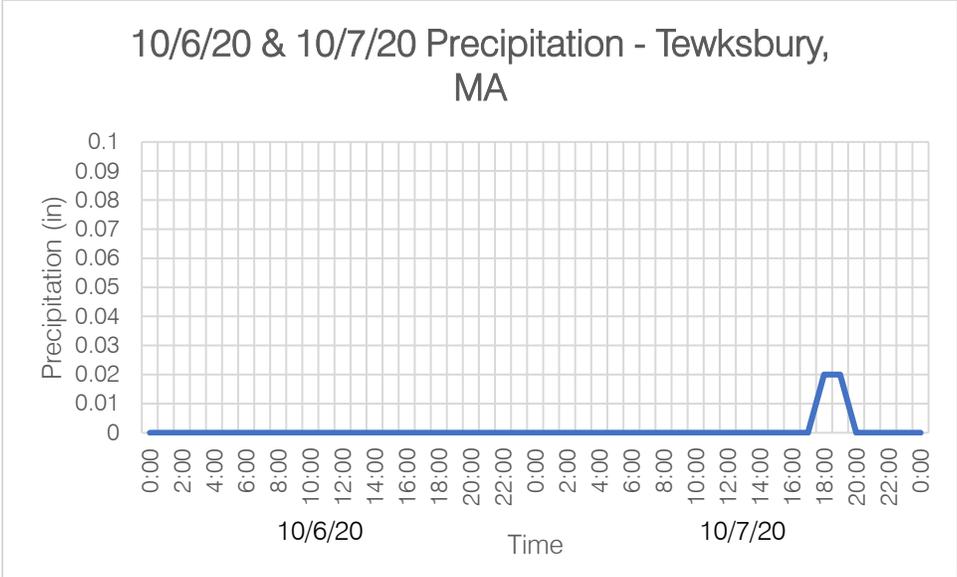
Sampling took place on 10/2/20 between 7:00 am and 4:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).



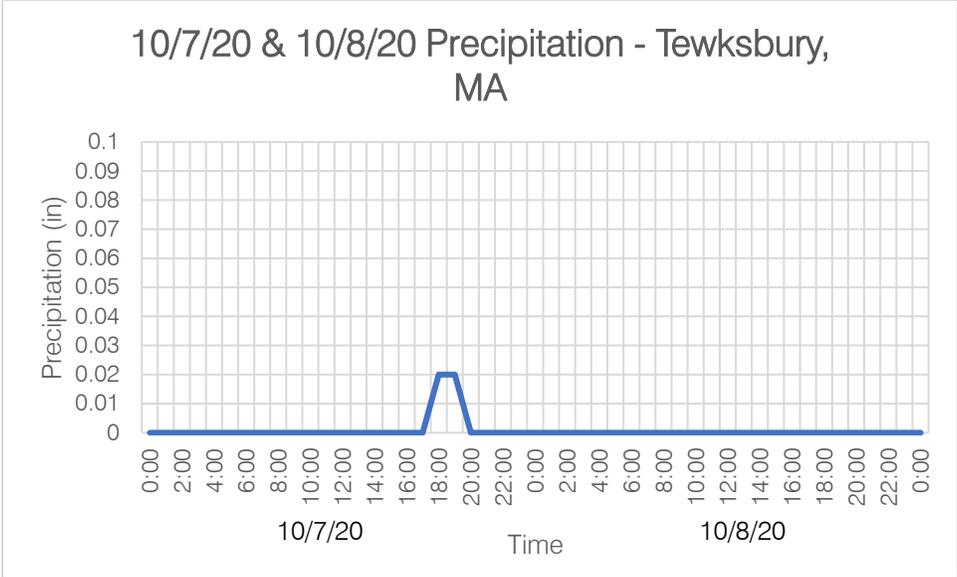
Sampling took place on 10/5/20 between 7:00 am and 4:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).



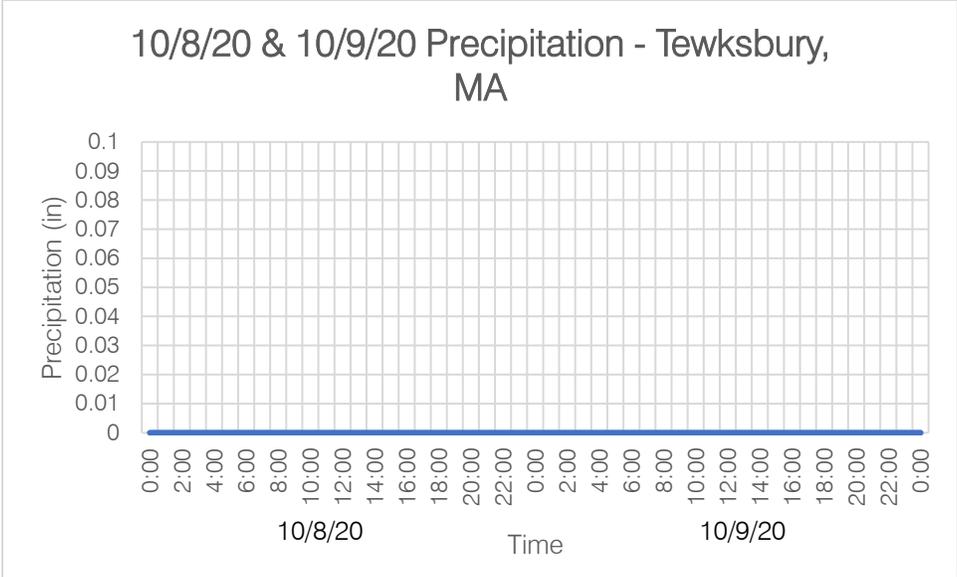
Sampling took place on 10/6/20 between 7:00 am and 4:00 pm. Data retrieved from [weatherunderground.com](http://weatherunderground.com).



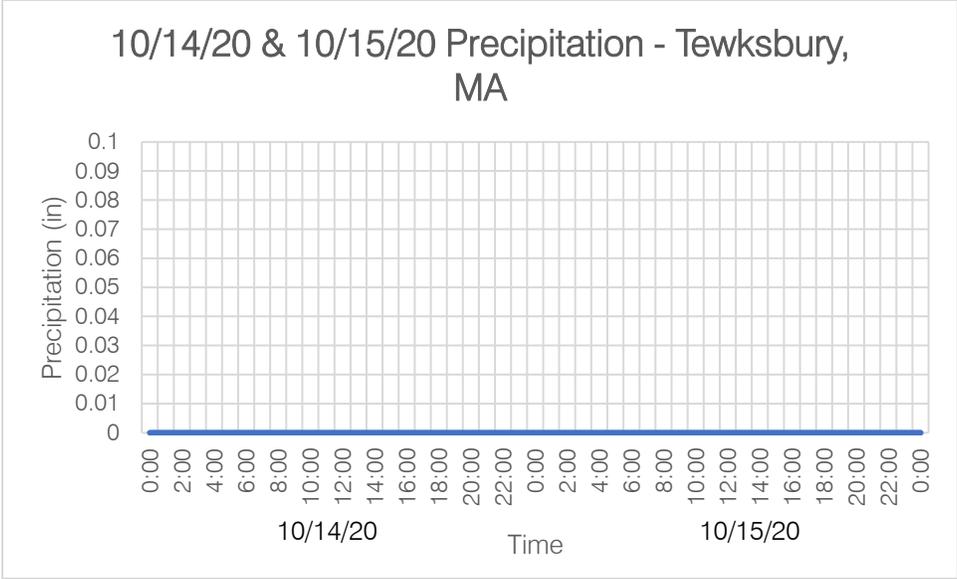
Sampling took place on 10/7/20 between 7:00 am and 4:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).



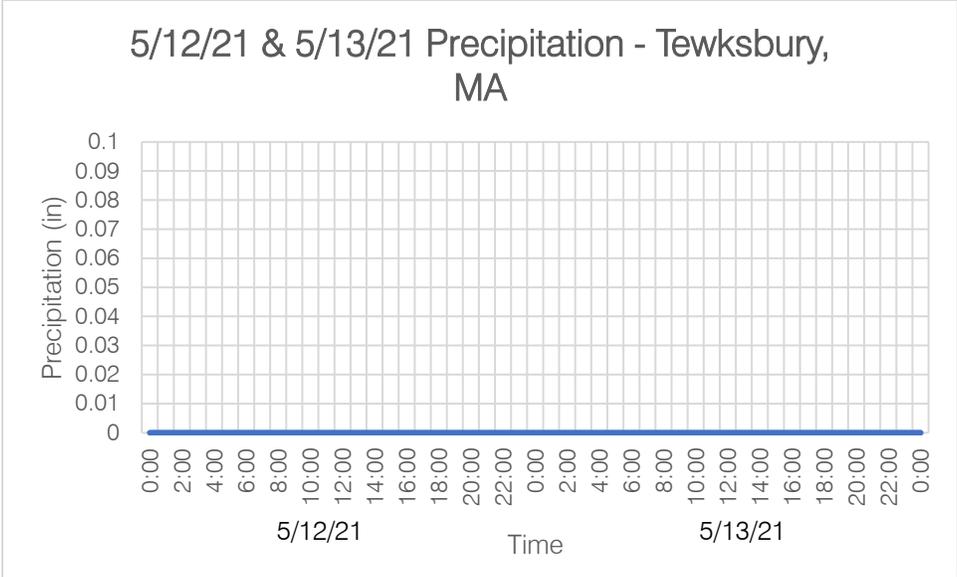
Sampling took place on 10/8/20 between 7:00 am and 4:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).



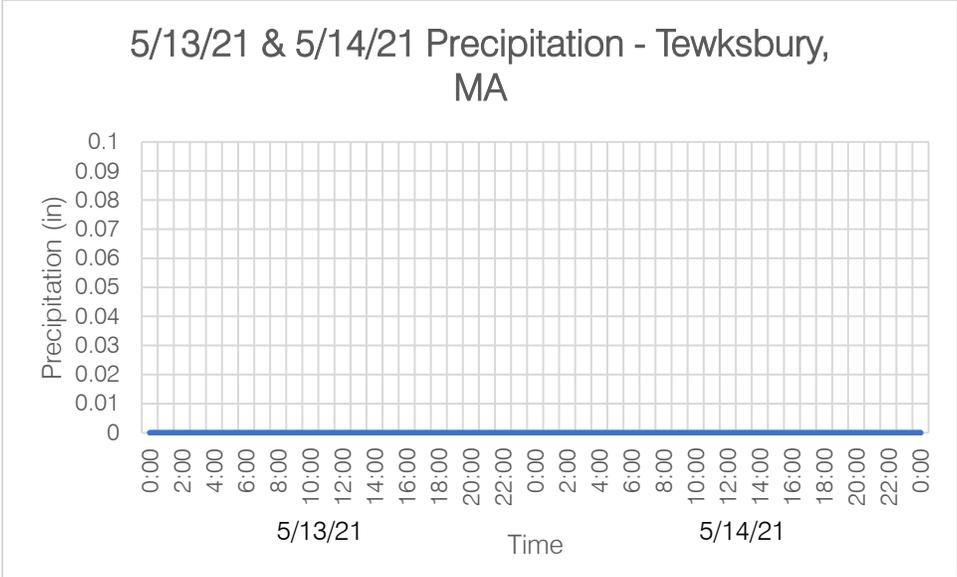
Sampling took place on 10/9/20 between 7:00 am and 4:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).



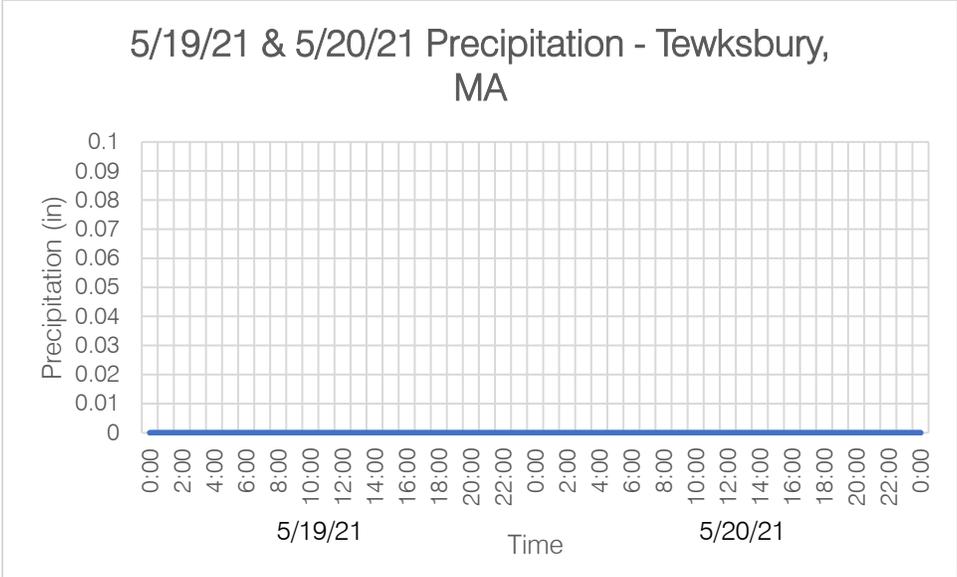
Sampling took place on 10/15/20 between 7:00 am and 4:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).



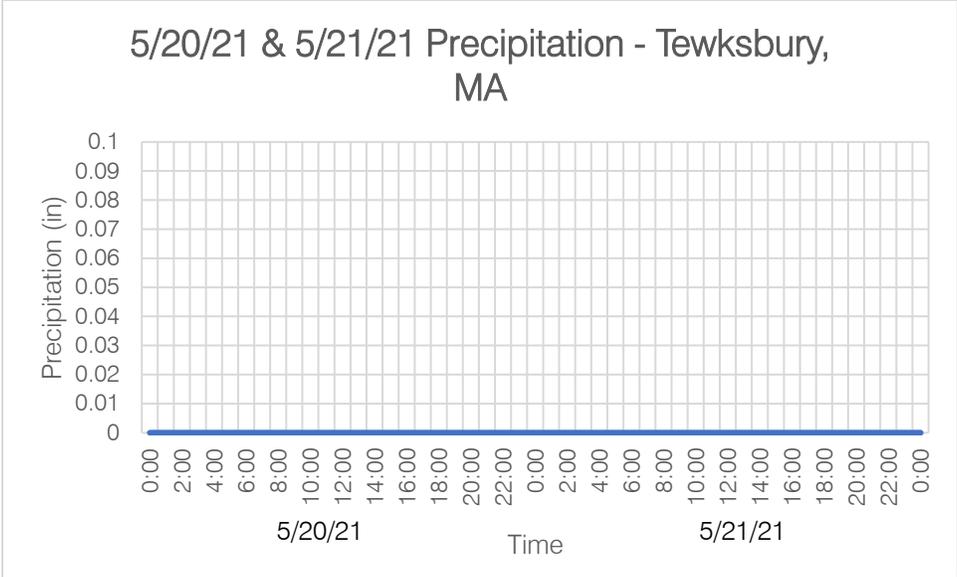
Sampling took place on 5/13/21 between 7:00 am and 4:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).



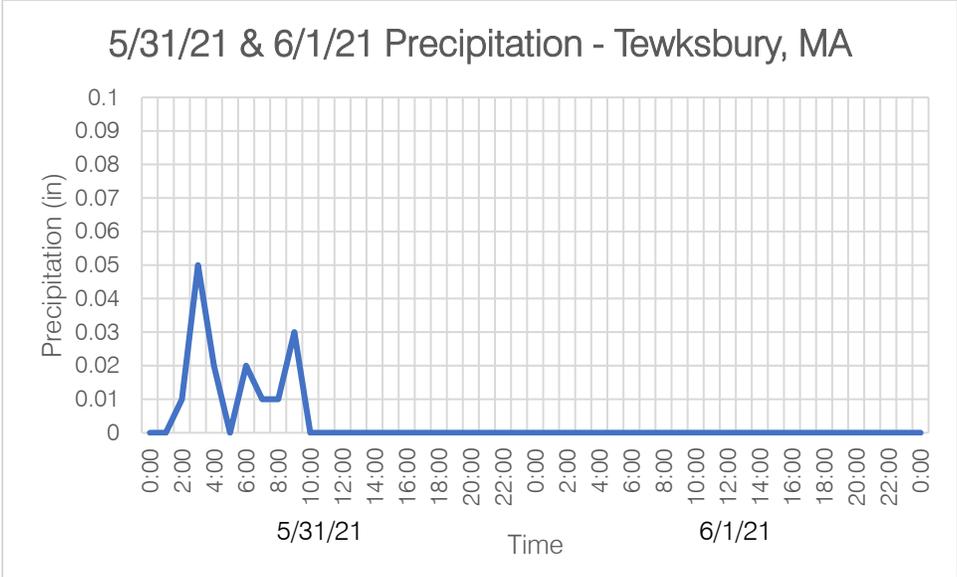
Sampling took place on 5/14/21 between 7:00 am and 4:00 pm. Data retrieved from [weatherundeground.com](http://weatherundeground.com).



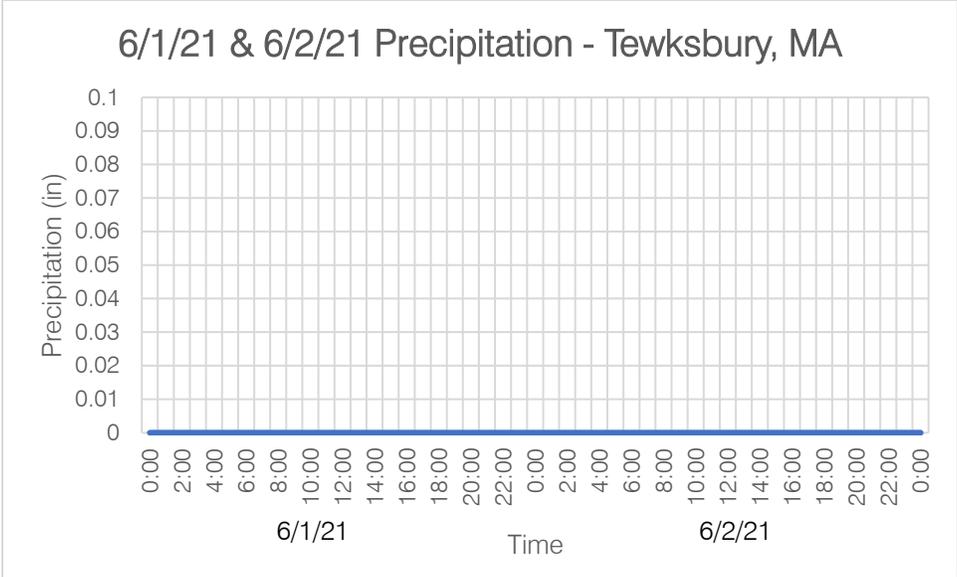
Sampling took place on 5/20/21 between 7:00 am and 4:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).



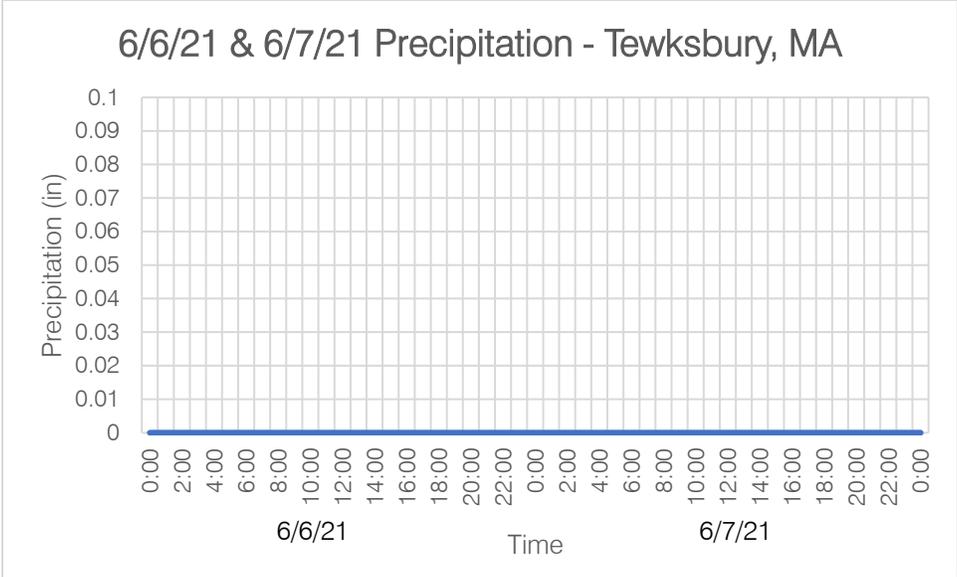
Sampling took place on 5/21/21 between 7:00 am and 4:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).



Sampling took place on 6/1/21 between 8:00 am and 4:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).

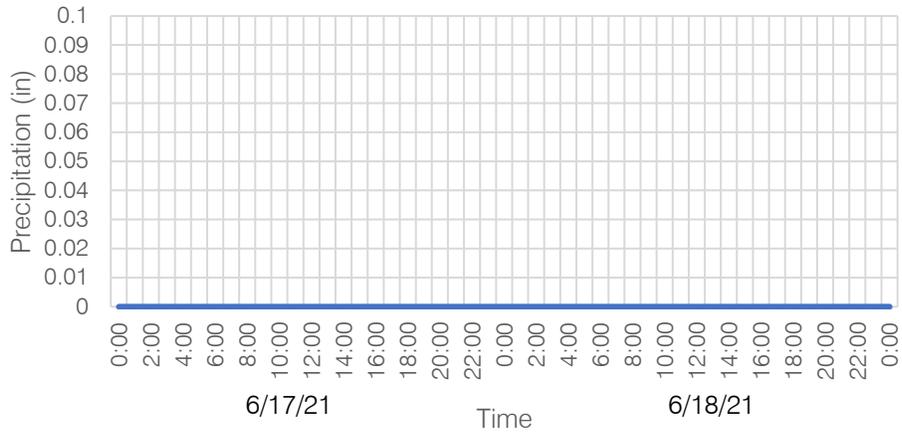


Sampling took place on 6/2/21 between 7:00 am and 4:00 pm. Data retrieved from [weatherunderground.com](http://weatherunderground.com).

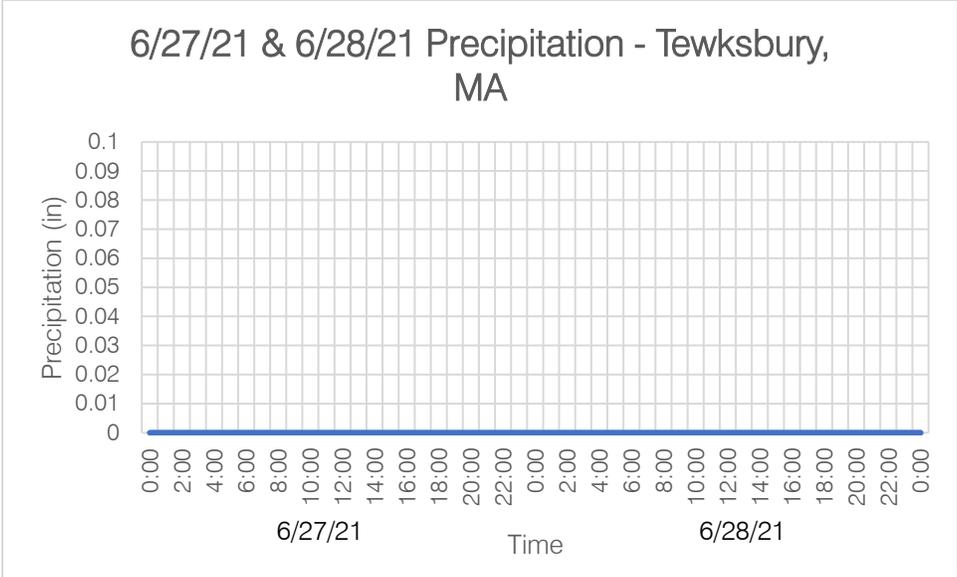


Sampling took place on 6/7/21 between 7:00 am and 4:00 pm. Data retrieved from [weatherunderground.com](http://weatherunderground.com).

### 6/17/21 & 6/18/21 Precipitation - Tewksbury, MA



Sampling took place on 6/18/21 between 7:00 am and 4:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).



Sampling took place on 6/28/21 between 10:00 am and 2:00 pm. Data retrieved from [weather underground.com](http://weather underground.com).

Attachment D

Dry Weather Sampling Results

Tewksbury, MA - Dry Weather Outfall Sampling Results

Outfall ID	Location	Receiving Water	Inspection Date and Time	Outfall Size/ Material	Field Testing Results						Lab Results	
					Temp. (°F)	Salinity (PPM)	Conductivity (µs/cm)	Ammonia (mg/L)	Surfactants (mg/L)	Chlorine (mg/L)	E. Coli (mpv/100 mL)	Total Phosphorus (mg/L)
OF-350	925 Shawsheen St	Shawsheen River wetlands	9/16/2020 12:50	36" CMP	60.0	492	902	0.30	0.50	0.03	70	-
OF-332	201 Beach St	Content Brook	9/21/2020 0:00	24" RCP	57.1	184	350	0.00	0.25	0.05	28	-
OF-98	Farwood Rd	Unnamed wetland	9/23/2020 10:10	48" RCP	58.6	305	565	0.40	0.13	0.01	5	-
OF-64	550 Whipple Rd	Unnamed wetland	9/23/2020 10:40	36" RCP	60.4	340	626	0.10	0.25	0.20	980	-
OF-132	513 Rogers St	Unnamed wetland	9/23/2020 11:15	24" RCP	65.5	266	491	0.00	0.13	0.04	15	-
OF-134	Heidenrich Dr	Heidenrich Dr Pond	9/23/2020 13:38	15" RCP	62.1	278	547	0.25	0.00	0.15	6	-
OF-136	395 Woburn St	Tributary to Concord River	9/24/2020 10:15	24" RCP	68.8	297	538	0.00	0.38	0.01	6	0.025
OF-117	558 Clark Rd	Unnamed wetland	10/6/2020 10:15	15" HDPE	62.3	30.8	53.2	3.00	3.00	0.06	328	-
OF-3084	81 Fox Run Dr	Unnamed wetland	10/6/2020 0:00	18" RCP	61.6	126	237	0.20	0.25	0.03	25	-
OF-1	97 Cardigan Rd	Unnamed wetland	10/7/2020 11:20	36" RCP	60.5	416	764	0.30	0.25	0.09	687	-
OF-32	1126 Livingston St	Unnamed wetland	10/8/2020 11:00	36" RCP	58.5	271	511	0.00	0.25	0.05	125	-
OF-3014	22 Manor Hill Dr	Unnamed wetland	10/19/2020 9:45	12" RCP	57.5	718	1304	0.00	0.38	0.01	1120	-
OF-4095	267 River Road	Trull Brook	5/20/2021 11:48	30" RCP	62.0	403	721	0.00	0.25	0.00	6	-
OF-4099	45 Trull Brook Lane	Trull Brook	5/20/2021 13:52	12" RCP	63.0	247	442	0.00	0.25	0.02	27	-
OF-4101	114 Mount Joy Dr Ext	Unnamed wetland	5/20/2021 14:34	12" RCP	61.0	128	229	0.00	0.25	0.06	5	-
OF-4088	42 Joseph Drive	Unnamed wetland	5/20/2021 10:58	12" RCP	68.0	196	393	0.00	0.25	0.11	22	-
OF-4128	60 Navillus Road	Trull Brook	5/21/2021 10:05	24" CMP	58.0	252	458	0.00	0.25	0.01	<1	-
OF-4114	46 Manor Hill Drive	Unnamed wetland	5/21/2021 10:41	12" RCP	60.0	580	1026	0.00	0.25	0.00	1	-
OF-4113	Merrimac Drive	Merrimack River	5/21/2021 11:18	32" RCP	57.0	281	510	0.00	0.25	0.03	12	<0.05
OF-4503	41 Dike Ct	Unnamed wetland	6/1/2021 12:10	36" RCP	68.0	144	288	0.10	0.25	0.01	47	-
OF-4507	583 Kendall Rd	Unnamed wetland	6/1/2021 12:35	36" RCP	66.0	180	359	0.00	0.25	0.00	579	-
OF-4514	40 Redgate Road	Unnamed wetland	6/1/2021 14:50	12" RCP	65.0	623	1140	0.00	0.25	0.03	38	-
OF-4545	4 Kimberly Drive	Unnamed wetland	6/2/2021 9:53	18" CMP	63.0	452	810	0.00	0.25	0.07	26	-
OF-4548	Dunvegan Rd	Unnamed wetland	6/2/2021 11:41	18" RCP	70.0	154	277	0.00	0.25	0.00	1	-
OF-4574	Overlook Dr	Ames Pond	6/2/2021 14:21	12" RCP	70.0	62	113	0.10	0.13	0.03	345	-
OF-4202	32 Moonlight Drive	Shawsheen River wetlands	6/1/2021 8:43	12" RCP	54.8	418	747	0.00	0.25	0.01	6	-
OF-4231	Kearsage Street	Unnamed wetland	6/1/2021 10:20	12" RCP	63.2	202	378	0.00	0.25	0.01	6	-
OF-4228	31 Barry Drive	Shawsheen River wetlands	6/1/2021 9:42	12" RCP	56.3	138	252	0.00	0.25	0.05	1553	-
OF-4291	280 Mitchell G Drive	Strong Water Brook wetlands	6/1/2021 15:04	24" RCP	65.1	292	403	0.00	0.25	0.02	5	-
OF-4292	75 Oxford Rd	Content Brook	6/2/2021 8:50	12" RCP	59.2	410	730	0.00	0.25	0.00	73	-
OF-4306	25 Oxford Road	Content Brook	6/2/2021 8:08	18" RCP	58.5	177	329	0.60	0.25	0.00	24	-
OF-4357	60 David Morris Road	Unnamed wetland	6/2/2021 11:55	18" CMP	59.5	193	356	0.00	0.25	0.00	4	-
OF-4388	20 Debra Drive	Unnamed wetland	6/2/2021 13:59	12" RCP	63.2	653	1276	0.20	0.25	0.00	64	-
OF-4389	65 Debra Drive	Strong Water Brook wetlands	6/2/2021 14:26	30" RCP	61.7	248	449	0.00	0.25	0.02	21	-
OF-4361	34 Colonial Drive	Unnamed Wetland	6/7/2021 12:54	24" CMP	74.0	301	540	0.00	0.25	0.02	109	-
OF-4570	22 Marion Drive	Unnamed Wetland	6/7/2021 8:50	18" RCP	67.0	275	495	0.00	0.25	0.05	1	-
OF-4134	140 Secor Way	Unnamed Wetland	6/7/2021 10:46	12" RCP	73.0	629	1124	0.10	0.25	0.00	121	-
OF-4423	40 Elenor Road	Heath Brook	6/7/2021 10:23	24" RCP	66.0	260	465	0.00	0.25	0.00	6	-
OF-4563	41 Penny Lane	Meadow Brook wetlands	6/7/2021 11:42	12" RCP	75.6	1112	1981	0.10	0.25	0.00	<1	-
OF-4322	5 School Street	Mud Pond	6/7/2021 13:08	30" CMP	71.0	487	872	0.80	0.25	0.00	<1	-
OF-4393	Tewksbury Memorial High School	Unnamed Wetland	6/18/2021 9:35	18" PVC	61.7	735	1260	0.00	0.25	0.12	2	-
OF-4394	Tewksbury Memorial High School	Unnamed Wetland	6/18/2021 9:30	8" HDPE	67.8	727	1177	0.60	0.25	0.37	365	-
OF-4637	9 Catamount Rd	Unnamed Wetland	6/18/2021 13:24	12" RCP	72.4	570	898	0.00	0.00	0.08	21	-
OF-4638	9 Catamount Rd	Unnamed Wetland	6/18/2021 13:50	24" RCP	70.7	285	485	0.00	0.25	0.07	12	-
OF-4331	Middle School	Unnamed wetland	6/18/2021 7:50	18" RCP	61.6	1240	2370	0.00	0.25	0.03	6	-
OF-4127	140 Navillus Rd	Trull Brook	6/28/2021 15:55	12" CMP	88.9	260	548	0.10	0.25	0.11	6	-

\*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 = 236 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 the water quality standards/benchmark criteria.

Attachment E

Laboratory Results

# 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: 17 September 2020

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
120091990.01	Dry Weather Outfall, Tewksbury, MA:	<b>OF-350</b>	Surface Water	16-Sep-20 12:45	16-Sep-20 16:20

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  
 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.

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/dwg/professionals/labCert.shtml  
 https://www.mass.gov/page-lab013

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

NH ELAP Accreditation #NH1005  
 Maine State Certification #NH01005  
 Vermont State Certification #VT1005  
[www.nelsonanalytical.com](http://www.nelsonanalytical.com)

**Date Reported :** 17-Sep-20 16:21

## REPORT OF ANALYSIS

**sampled Date:** 16-Sep-2020 12:45

**120091990.01**

**Dry Weather Outfall,  
 Tewksbury, MA  
 OF-350**

### *E.Coli Water*

<u>Analyte</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>Method</u>	<u>Analyst</u>
E. coli Bacteria	<b>70</b>	1	mpn/100mL	09/16/2020 16:45	SM 9223B	NH

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.



# 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: 22 September 2020  
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
120092515.01	Tewksbury, MA:	<b>OF-332</b>	Surface Water	21-Sep-20 11:00	21-Sep-20 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:



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](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)

<https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml>  
<https://www.mass.gov/info-details/subcontract-laboratories>

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

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

Date Reported : 22-Sep-20 13:46

## REPORT OF ANALYSIS

sampled Date: 21-Sep-2020 11:00

120092515.01

Tewksbury, MA

OF-332

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	28	1	mpn/100mL	09/21/2020 16:30	SM 9223B	EMG

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/nhelep/>  
[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](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

NH ELAP Accreditation #NH1005  
 Maine Certification # NH01005  
 Vermont State Certification # VT1005  
[www.nelsonanalytical.com](http://www.nelsonanalytical.com)

Client: **Weston & Sampson:** 24 September 2020  
 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
120092801.01	Tewksbury, MA:	<b>OF-98</b>	Surface Water	23-Sep-20 10:00	23-Sep-20 15:55
120092801.02	Tewksbury, MA:	<b>OF-64</b>	Surface Water	23-Sep-20 10:30	23-Sep-20 15:55
120092801.03	Tewksbury, MA:	<b>OF-132</b>	Surface Water	23-Sep-20 11:15	23-Sep-20 15:55
120092801.04	Tewksbury, MA:	<b>OF-134</b>	Surface Water	23-Sep-20 13:15	23-Sep-20 15:55

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.  
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<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/>  
[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
<https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml>  
<https://www.mass.gov/info-details>

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Date Reported : 24-Sep-20 12:56

## REPORT OF ANALYSIS

sampled Date: 23-Sep-2020 10:00

120092801.01

Tewksbury, MA

OF-98

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	5	1	mpn/100mL	09/23/2020 16:30	SM 9223B	NH

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 EAL 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](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 : 24-Sep-20 12:56

## REPORT OF ANALYSIS

sampled Date: 23-Sep-2020 10:30

120092801.02

Tewksbury, MA

OF-64

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	980	1	mpn/100mL	09/23/2020 16:30	SM 9223B	NH

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 EAL 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](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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**Date Reported :** 24-Sep-20 12:56

## REPORT OF ANALYSIS

**120092801.03**  
**Tewksbury, MA**  
**OF-132**

**sampled Date:** 23-Sep-2020 11:15

### ***E.Coli Water***

<b>Analyte</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Units</b>	<b>Analyzed</b>	<b>Method</b>	<b>Analyst</b>
E. coli Bacteria	<b>15</b>	1	mpn/100mL	09/23/2020 16:30	SM 9223B	NH

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](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 : 24-Sep-20 12:56

## REPORT OF ANALYSIS

120092801.04  
 Tewksbury, MA  
 OF-134

sampled Date: 23-Sep-2020 01:15

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	6	1	mpn/100mL	09/23/2020 16:30	SM 9223B	NH

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 EAL 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](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>

# Sample Submission Form

12009-2801-14

## CUSTOMER INFORMATION

Sample Submitted by:

Company Name: **WESTON + SANDERSON**

Address: **55 WHEELERS BLVD DR BETHUNE NH**

Contact Person: **ANDREW WOTCIAN**

Phone / Fax Number: **603-533-0401**

PROJECT/SITE: **TEWLESBURY**

## SAMPLE TYPE

## REQUESTED TESTING

DW - Drinking Water

SW - Surface Water

S - Soil

WW - wastewater

O - Other

F. coli (count)

LABORATORY SAMPLE I.D. NUMBER (LAB USE)

Sample Date	Sample Time	Sample Description / Identification	Sampled by Initials	SAMPLE TYPE	REQUESTED TESTING	LABORATORY NUMBER
9/23	10:00	OF-98	ASW	SW		1
9/23	10:30	OF-64	ASW	SW		2
9/23	11:15	<del>OF-132</del> OF-132	ASW	SW		3
9/23	1:15	OF-134	ASW	SW		4

Relinquished By (signature)

*AK*

Received By (signature)

9/23/12 8:00

Remarks: In Cooler?  Y  N On Ice?  Y  N Cl2: Pos  Neg  NA Lab Containers Types: TC  Min 40ml Radon 40 ml HCL LC SOC Set Temp  IOC Set Date 9/23/12 Time 1555

4X

The laboratory reserves the right to subcontract testing at their discretion.  
 FRM-NH-Sample Submission Form Blank-01 09/11/2015

# NELSON ANALYTICAL LAB

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

Client: Weston & Sampson: 05 October 2020

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
120092997.01	Tewksbury, MA:	<b>OF-136</b>	Surface Water	24-Sep-20 10:15	24-Sep-20 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:



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:NH2572

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/>  
[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
<https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml>  
<https://www.mass.gov/info-details/nelap-laboratories>

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 (603)622-0200

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

Date Reported : 05-Oct-20 17:10

## REPORT OF ANALYSIS

sampled Date: 24-Sep-2020 10:15

120092997.01

Tewksbury, MA

OF-136

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	6	1	mpn/100mL	09/24/2020 17:05	SM 9223B	NH

### *Phosphorus, as P*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
Phosphorus, as P	0.025	0.01	mg/L	09/29/2020 12:00	SM4500PE-11	SUB

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 EAL 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](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>



RP201005145

# Sample Submission Form

42008<sup>Pa</sup>9-0997

CUSTOMER INFORMATION				SAMPLE TYPE		REQUESTED TESTING				LABORATORY
Sample Submitted by:										
Company Name	WESTON + SAMPSON			DW - Drinking Water						
Address	55 WALLACE BROOK DR			SW - Surface Water						SAMPLE I.D. NUMBER
Contact Person	ANDREW WOTCIAK			S - Soil						
Phone / Fax Number	(603) 533-0401			WW - wastewater						
PROJECTSITE	TEMPERELY			O - Other						(LAB USE)
Sample Date	Sample Time	Sample Description / Identification	Sampled by Initials							
9/24	10:15	OF-13G	ATW	SW	E. coli (count)	Total Phos.				
Relinquished By (signature)				Date	Time	Received By (signature)				
<i>[Signature]</i>				9/24	3:30	<i>[Signature]</i>				
Remarks: In Cooler? <input checked="" type="checkbox"/> N On Ice? <input checked="" type="checkbox"/> Y N C12: Pos Neg <input checked="" type="checkbox"/> NA Lab Containers Types: <input checked="" type="checkbox"/> TC <input checked="" type="checkbox"/> Min 40ml Radon 40 ml HCL EC SOC Set IOC Set HAA5 Set										
Rec'd at Laboratory by:				Temp		Date		Time		
<i>[Signature]</i>				63		9/24		16:55		

The laboratory reserves the right to subcontract testing at their discretion.  
FRM-NH-Sample Submission Form Blank-01 09/11/2015

# NELSON ANALYTICAL LAB

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 (603)622-0200

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

Client: Weston & Sampson: 07 October 2020  
 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
120100645.01	Tewksbury, MA:	<b>OF-117</b>	Surface Water	06-Oct-20 10:00	06-Oct-20 15:30
120100645.02	Tewksbury, MA:	<b>OF-3084</b>	Surface Water	06-Oct-20 11:45	06-Oct-20 15:30

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:



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.

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 Maine State Certification #NH01005  
 Vermont State Certification #VT1005  
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Date Reported : 07-Oct-20 12:25

## REPORT OF ANALYSIS

sampled Date: 06-Oct-2020 10:00

120100645.01

Tewksbury, MA

OF-117

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	328	1	mpn/100mL	10/06/2020 16:00	SM 9223B	NH

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/nhelep/>  
[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](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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Date Reported : 07-Oct-20 12:25

## REPORT OF ANALYSIS

sampled Date: 06-Oct-2020 11:45

120100645.02

Tewksbury, MA

OF-3084

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	25	1	mpn/100mL	10/06/2020 16:00	SM 9223B	NH

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/nheap/>  
[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
<https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml>  
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NH ELAP Accreditation #NH1005  
Maine Certification # NH01005  
Vermont State Certification # VT1005  
www.nelsonanalytical.com

Client: Weston & Sampson: 08 October 2020  
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
120100844.01	Tewksbury, MA:	<b>OF-1</b>	Surface Water	07-Oct-20 11:10	07-Oct-20 15:35

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.

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<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/>

[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)

<https://www.maine.gov/dhhs/mecdc/environmental-health/dwgp/professionals/labCert.shtml>

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 Manchester, NH 03109  
 (603)622-0200

NH ELAP Accreditation #NH1005  
 Maine State Certification #NH01005  
 Vermont State Certification #VT1005  
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Date Reported : 08-Oct-20 12:31

## REPORT OF ANALYSIS

sampled Date: 07-Oct-2020 11:10

120100844.01

Tewksbury, MA

OF-1

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	687	1	mpn/100mL	10/07/2020 15:45	SM 9223B	NH

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/nhelep/>  
[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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# NELSON ANALYTICAL LAB

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 (603)622-0200

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[www.nelsonanalytical.com](http://www.nelsonanalytical.com)

Client: **Weston & Sampson:** 09 October 2020  
 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
120101008.01	Tewksbury, MA:	<b>OF-32</b>	Surface Water	08-Oct-20 11:00	08-Oct-20 15:30

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:



Andrew Nelson      Laboratory Director



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Date Reported : 09-Oct-20 11:08

## REPORT OF ANALYSIS

sampled Date: 08-Oct-2020 11:00

120101008.01

Tewksbury, MA

OF-32

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	125	1	mpn/100mL	10/08/2020 15:40	SM 9223B	EMG

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/nhelep/>

[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)

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Client: Weston & Sampson: 20 October 2020  
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
120102174.01	Tewksbury, MA:	<b>OF-3014</b>	Surface Water	19-Oct-20 09:45	19-Oct-20 13:40

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.

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[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)

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Date Reported : 20-Oct-20 10:11

## REPORT OF ANALYSIS

sampled Date: 19-Oct-2020 09:45

120102174.01

Tewksbury, MA

OF-3014

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	1120	1	mpn/100mL	10/19/2020 15:20	SM 9223B	NH

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/nhelep/>  
[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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Client: Weston & Sampson: 22 May 2021  
 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
121052048.01	Tewksbury, MA:	<b>OF-4094</b>	Surface Water	20-May-21 10:58	20-May-21 16:05
121052048.02	Tewksbury, MA:	<b>OF-4095</b>	Surface Water	20-May-21 11:48	20-May-21 16:05
121052048.03	Tewksbury, MA:	<b>OF-4099</b>	Surface Water	20-May-21 13:52	20-May-21 16:05
121052048.04	Tewksbury, MA:	<b>OF-4101</b>	Surface Water	20-May-21 14:34	20-May-21 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:



Andrew Nelson Laboratory Director



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Date Reported : 22-May-21 11:26

## REPORT OF ANALYSIS

sampled Date: 20-May-2021 10:58

121052048.01

Tewksbury, MA

OF-4094

### *E.Coli Water*

<u>Analyte</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Analyzed</u>	<u>Method</u>	<u>Analyst</u>
E. coli Bacteria	22	1	mpn/100mL	05/20/2021 17:00	SM 9223B	SH

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 : 22-May-21 11:26

## REPORT OF ANALYSIS

sampled Date: 20-May-2021 11:48

121052048.02

Tewksbury, MA

OF-4095

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	6	1	mpn/100mL	05/20/2021 17:00	SM 9223B	SH

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/nhelep/>

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Date Reported : 22-May-21 11:26

## REPORT OF ANALYSIS

sampled Date: 20-May-2021 01:52

121052048.03

Tewksbury, MA

OF-4099

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	27	1	mpn/100mL	05/20/2021 17:00	SM 9223B	SH

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](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)

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Date Reported : 22-May-21 11:26

## REPORT OF ANALYSIS

sampled Date: 20-May-2021 02:34

121052048.04

Tewksbury, MA

OF-4101

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	5	1	mpn/100mL	05/20/2021 17:00	SM 9223B	SH

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](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
<https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml>  
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490 E. Industrial Park Dr., Manchester, NH 03109  
 (603) 622-0200 phone

# Sample Submission Form

Pages of 12105-2048  
 4

CUSTOMER INFORMATION				SAMPLE TYPE		REQUESTED TESTING				LABORATORY															
Company Name				DW - Drinking Water		E. coli (COUNT)				LABORATORY															
Address				SW - Surface Water																					
Contact Person				S - Soil		LABORATORY		SAMPLE I.D. NUMBER		LABORATORY															
Phone / Fax Number				WW - Wastewater																					
PROJECT/SITE				O - Other		LABORATORY		LABORATORY		LABORATORY															
Sample Date				Sample Time																					
Sample Description / Identification				Sampled by Initials		LABORATORY		LABORATORY		LABORATORY															
5/20/11 10:58				OF - 4094								ASW		✓		1									
1148				OF - 4095		ASW		✓		2															
1:52				OF - 4099		ASW		✓		3															
2:34				OF - 4101		ASW		✓		4															
Relinquished By (signature)				Date		Time		Received By (signature)																	
Ala M...				5/20/11		9:05		M...																	
Remarks: In Cooler? <input checked="" type="checkbox"/> N				On Ice? <input checked="" type="checkbox"/> Y		C12: Pos Neg <input checked="" type="checkbox"/> NA		Lab Containers Types? <input checked="" type="checkbox"/> TC		40ml Radon		40mls HCL		LC		SOC Set		IOC Set		Temp (C/F)		Date		Time	

The laboratory reserves the right to subcontract testing at their discretion.  
 FRM-NH-Sample Submission Form Blank-01 09/11/2015

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Client: **Weston & Sampson:** 27 May 2021

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
121052194.01	Tewksbury, MA:	<b>OF-4128</b>	Surface Water	21-May-21 10:05	21-May-21 15:30
121052194.02	Tewksbury, MA:	<b>OF-4114</b>	Surface Water	21-May-21 10:41	21-May-21 15:30
121052194.03	Tewksbury, MA:	<b>OF-4113</b>	Surface Water	21-May-21 11:18	21-May-21 15:30

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:



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.

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[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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<https://www.mass.gov/info-details/nelap-laboratories>

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 Vermont State Certification #VT1005  
 www.nelsonanalytical.com

Date Reported : 27-May-21 12:15

## REPORT OF ANALYSIS

sampled Date: 21-May-2021 10:05

121052194.01

Tewksbury, MA

OF-4128

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	05/21/2021 15:35	SM 9223B	SH

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](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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Date Reported : 27-May-21 12:15

## REPORT OF ANALYSIS

sampled Date: 21-May-2021 10:41

121052194.02

Tewksbury, MA

OF-4114

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	1	1	mpn/100mL	05/21/2021 15:35	SM 9223B	SH

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Date Reported : 27-May-21 12:15

## REPORT OF ANALYSIS

sampled Date: 21-May-2021 11:18

121052194.03

Tewksbury, MA

OF-4113

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	12	1	mpn/100mL	05/21/2021 15:35	SM 9223B	SH

### *Total Phosphate*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
Total Phosphate-PO4	<0.05	0.05	mg/L	05/27/2021 11:04	HACH 8190	NH

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/nh-elap>  
[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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 www.nelsonanalytical.com

Client: Weston & Sampson: 02 June 2021

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
121060038.01	Tewksbury, MA:	<b>OF-4202</b>	Surface Water	01-Jun-21 08:43	01-Jun-21 11:50
121060038.02	Tewksbury, MA:	<b>OF-4228</b>	Surface Water	01-Jun-21 09:42	01-Jun-21 11:50
121060038.03	Tewksbury, MA:	<b>OF-4231</b>	Surface Water	01-Jun-21 10:20	01-Jun-21 11:50

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.

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 http://healthvermont.gov/enviro/ph\_lab/PublicHealthLaboratory.aspx  
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Date Reported : 02-Jun-21 09:53

## REPORT OF ANALYSIS

sampled Date: 01-Jun-2021 08:43

121060038.01

Tewksbury, MA

OF-4202

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	6	1	mpn/100mL	06/01/2021 13:55	SM 9223B	SH

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](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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Date Reported : 02-Jun-21 09:53

## REPORT OF ANALYSIS

sampled Date: 01-Jun-2021 09:42

121060038.02

Tewksbury, MA

OF-4228

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	1553	1	mpn/100mL	06/01/2021 13:55	SM 9223B	SH

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 : 02-Jun-21 09:53

## REPORT OF ANALYSIS

sampled Date: 01-Jun-2021 10:20

121060038.03

Tewksbury, MA

OF-4231

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	6	1	mpn/100mL	06/01/2021 13:55	SM 9223B	SH

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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Client: **Weston & Sampson:** 02 June 2021

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
121060122.01	Tewksbury, MA:	<b>OF-4503</b>	Surface Water	01-Jun-21 12:10	01-Jun-21 16:20
121060122.02	Tewksbury, MA:	<b>OF-4507</b>	Surface Water	01-Jun-21 12:35	01-Jun-21 16:20
121060122.03	Tewksbury, MA:	<b>OF-4514</b>	Surface Water	01-Jun-21 14:50	01-Jun-21 16:20
121060122.04	Tewksbury, MA:	<b>OF-4291</b>	Surface Water	01-Jun-21 15:04	01-Jun-21 16:20

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.

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Date Reported : 02-Jun-21 15:54

## REPORT OF ANALYSIS

sampled Date: 01-Jun-2021 12:10

121060122.01

Tewksbury, MA

OF-4503

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	47	1	mpn/100mL	06/01/2021 16:45	SM 9223B	SH

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 : 02-Jun-21 15:54

## REPORT OF ANALYSIS

sampled Date: 01-Jun-2021 12:35

121060122.02

Tewksbury, MA

OF-4507

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	579	1	mpn/100mL	06/01/2021 16:45	SM 9223B	SH

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](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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Date Reported : 02-Jun-21 15:54

## REPORT OF ANALYSIS

sampled Date: 01-Jun-2021 02:50

121060122.03

Tewksbury, MA

OF-4514

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	38	1	mpn/100mL	06/01/2021 16:45	SM 9223B	SH

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 : 02-Jun-21 15:54

## REPORT OF ANALYSIS

sampled Date: 01-Jun-2021 03:04

121060122.04

Tewksbury, MA

OF-4291

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	5	1	mpn/100mL	06/01/2021 16:45	SM 9223B	SH

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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 www.nelsonanalytical.com

Client: Weston & Sampson: 03 June 2021

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
121060204.01	Tewksbury, MA:	<b>OF-4306</b>	Surface Water	02-Jun-21 08:08	02-Jun-21 11:35
121060204.02	Tewksbury, MA:	<b>OF-4292</b>	Surface Water	02-Jun-21 08:50	02-Jun-21 11:35

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:NH2577

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/info-details/

490 East Industrial Park Drive  
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 (603)622-0200

NH ELAP Accreditation #NH1005  
 Maine State Certification #NH01005  
 Vermont State Certification #VT1005  
[www.nelsonanalytical.com](http://www.nelsonanalytical.com)

Date Reported : 03-Jun-21 12:39

## REPORT OF ANALYSIS

sampled Date: 02-Jun-2021 08:08

121060204.01

Tewksbury, MA

OF-4306

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	24	1	mpn/100mL	06/02/2021 12:00	SM 9223B	SH

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](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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Date Reported : 03-Jun-21 12:39

## REPORT OF ANALYSIS

sampled Date: 02-Jun-2021 08:50

121060204.02

Tewksbury, MA

OF-4292

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	73	1	mpn/100mL	06/02/2021 12:00	SM 9223B	SH

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](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
<https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml>  
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# NELSON ANALYTICAL LAB

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(603)622-0200

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

Client: Weston & Sampson: 03 June 2021

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
121060205.01	Tewksbury, MA:	<b>OF-4545</b>	Surface Water	02-Jun-21 09:53	02-Jun-21 11:35

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:NH2572

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/>

[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](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 : 03-Jun-21 12:39

## REPORT OF ANALYSIS

sampled Date: 02-Jun-2021 09:53

121060205.01

Tewksbury, MA

OF-4545

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	26	1	mpn/100mL	06/02/2021 12:00	SM 9223B	SH

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](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>

# Sample Submission Form

121060205

Page      of     

CUSTOMER INFORMATION				REQUESTED TESTING											
Sample Submitted by:															
Company Name	weston B Sampson														
Address	55 walrus Road Drive Reading MA														
Contact Person	Andrew Wojcik														
Phone / Fax Number	903-533-2401														
PROJECT/SITE	Tewksbury MA														
Sample Date	Sample Time	Sample Description / Identification		Sampled by Initials											
6/2/21	9:53	OF-4545		APG											
						Received By (signature)		Date		Time		Temp		LAE	
Andy Linton						Bill Linton		6/2/21		10:57					

Remarks: In Cooler?  Y  N On Ice?  Y  N Lab Containers Types: For accredited work under ISO 17025?  Y  N

Notes:

6/2/21 11:35 9.8

Date Rec'd: 6/2/21 Time Rec'd: 11:35 Temp Rec'd: 9.8  
 Rec'd by: SM Location: CDM  
 Cooler:  Y  N Ice:  Pos  Neg  
 Chlorine:  Pos  Neg 40ML HCL LC OTHER  
 Bottle: TC MIN

The laboratory reserves the right to subcontract testing at their discretion.  
 FRM-NH-Sample Submission Form Blank Food 01.30.2018

# NELSON ANALYTICAL LAB

490 East Industrial Park Drive  
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NH ELAP Accreditation #NH1005  
 Maine Certification # NH01005  
 Vermont State Certification # VT1005  
[www.nelsonanalytical.com](http://www.nelsonanalytical.com)

Client: **Weston & Sampson:** 03 June 2021

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
121060335.01	Tewksbury, MA:	<b>OF-4357</b>	Surface Water	02-Jun-21 11:55	02-Jun-21 16:02
121060335.02	Tewksbury, MA:	<b>OF-4388</b>	Surface Water	02-Jun-21 13:59	02-Jun-21 16:02
121060335.03	Tewksbury, MA:	<b>OF-4389</b>	Surface Water	02-Jun-21 14:26	02-Jun-21 16:02
121060335.04	Tewksbury, MA:	<b>OF-4548</b>	Surface Water	02-Jun-21 11:41	02-Jun-21 16:02
121060335.05	Tewksbury, MA:	<b>OF-4574</b>	Surface Water	02-Jun-21 14:21	02-Jun-21 16:02

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.

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<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/>  
[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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Date Reported : 03-Jun-21 14:41

## REPORT OF ANALYSIS

sampled Date: 02-Jun-2021 11:55

121060335.01

Tewksbury, MA

OF-4357

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	4	1	mpn/100mL	06/02/2021 16:30	SM 9223B	SH

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](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 : 03-Jun-21 14:41

## REPORT OF ANALYSIS

sampled Date: 02-Jun-2021 01:59

121060335.02

Tewksbury, MA

OF-4388

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	64	1	mpn/100mL	06/02/2021 16:30	SM 9223B	SH

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](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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Date Reported : 03-Jun-21 14:41

## REPORT OF ANALYSIS

sampled Date: 02-Jun-2021 02:26

121060335.03

Tewksbury, MA

OF-4389

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	21	1	mpn/100mL	06/02/2021 16:30	SM 9223B	SH

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](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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Date Reported : 03-Jun-21 14:41

## REPORT OF ANALYSIS

sampled Date: 02-Jun-2021 11:41

121060335.04

Tewksbury, MA

OF-4548

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	1	1	mpn/100mL	06/02/2021 16:30	SM 9223B	SH

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](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 : 03-Jun-21 14:41

**REPORT OF ANALYSIS**  
**121060335.05**  
**Tewksbury, MA**  
**OF-4574**

sampled Date: 02-Jun-2021 02:21

***E.Coli Water***

<b>Analyte</b>	<b>Result</b>	<b>Reporting Limit</b>	<b>Units</b>	<b>Analyzed</b>	<b>Method</b>	<b>Analyst</b>
E. coli Bacteria	345	1	mpn/100mL	06/02/2021 16:30	SM 9223B	SH

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>  
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<https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml>  
<https://www.mass.gov/certified-laboratories>

Sample Submission Form

121060335 (14)

Sample Submitted by: \_\_\_\_\_

REQUESTED TESTING

LABORATORY

Company Name

WESTON + SANDSEN

Address

55 WALKERS BRIDGE

Contact Person

ANDREW WISCHALE

Phone / Fax Number

603-533-0401

PROJECT/SITE

THURSBOY

Sample Date

Sample Description / Identification

Sampled by Initials

E. coli

(LAB USE)

6/2 11:55

OF-4357

ASW

✓

1

6/2 1:59

OF-4388

ASW

✓

2

6/2 2:26

OF-4389

ASW

✓

3

6/2 11:41

OF-4548

AG

✓

4

6/2 2:21

OF-4574

AG

✓

5

Relinquished By (signature)

Date

Time

Received By (signature)

Date

Time

Temp

LAB

ASW

ASW

6/2/21

Andrew Wischale

6/2/21 10:20

7.9

Remarks: In Cooler?  N On Ice?  N

For accredited work under ISO 17025?  Y  N

Lab Containers Types: C-118 mL Strife

Cooler/ice front cooler

Notes:

# NELSON ANALYTICAL LAB

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

Client: Weston & Sampson: 08 June 2021

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
121060751.01	Tewksbury, MA:	<b>OF-4570</b>	Surface Water	07-Jun-21 08:50	07-Jun-21 12:00
121060751.02	Tewksbury, MA:	<b>OF-4134</b>	Surface Water	07-Jun-21 10:46	07-Jun-21 12:00
121060751.03	Tewksbury, MA:	<b>OF-4423</b>	Surface Water	07-Jun-21 10:23	07-Jun-21 12:00

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



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  
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Date Reported : 08-Jun-21 12:25

## REPORT OF ANALYSIS

sampled Date: 07-Jun-2021 08:50

121060751.01

Tewksbury, MA

OF-4570

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	1	1	mpn/100mL	06/07/2021 12:30	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://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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Date Reported : 08-Jun-21 12:25

## REPORT OF ANALYSIS

sampled Date: 07-Jun-2021 10:46

121060751.02

Tewksbury, MA

OF-4134

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	121	1	mpn/100mL	06/07/2021 12:30	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](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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Date Reported : 08-Jun-21 12:25

## REPORT OF ANALYSIS

sampled Date: 07-Jun-2021 10:23

121060751.03

Tewksbury, MA

OF-4423

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	6	1	mpn/100mL	06/07/2021 12:30	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](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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Client: **Weston & Sampson:** 08 June 2021

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
121060842.01	Tewksbury, MA:	<b>OF-4563</b>	Surface Water	07-Jun-21 11:42	07-Jun-21 15:55
121060842.02	Tewksbury, MA:	<b>OF-4322</b>	Surface Water	07-Jun-21 13:08	07-Jun-21 15:55

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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<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/>  
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Date Reported : 08-Jun-21 16:27

## REPORT OF ANALYSIS

sampled Date: 07-Jun-2021 11:42

121060842.01

Tewksbury, MA

OF-4563

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	06/07/2021 16:15	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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<http://des.nh.gov/organization/divisions/water/dwgb/nhelaq>  
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Date Reported : 08-Jun-21 16:27

## REPORT OF ANALYSIS

sampled Date: 07-Jun-2021 01:08

121060842.02

Tewksbury, MA

OF-4322

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	<1	1	mpn/100mL	06/07/2021 16:15	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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<http://des.nh.gov/organization/divisions/water/dwgb/nhelap>  
[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
<https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml>  
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Client: Weston & Sampson: 08 June 2021

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
121060843.01	Tewksbury, MA:	<b>OF-4361</b>	Surface Water	07-Jun-21 12:54	07-Jun-21 15:55

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.

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<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/>  
[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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Date Reported : 08-Jun-21 16:27

## REPORT OF ANALYSIS

sampled Date: 07-Jun-2021 12:54

121060843.01

Tewksbury, MA

OF-4361

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	109	1	mpn/100mL	06/07/2021 16:15	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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[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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Client: **Weston & Sampson:** 21 June 2021

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
121062037.01	Tewksbury, MA:	<b>OF-4331</b>	Surface Water	18-Jun-21 07:50	18-Jun-21 12:55
121062037.02	Tewksbury, MA:	<b>OF-4393</b>	Surface Water	18-Jun-21 09:35	18-Jun-21 12:55
121062037.03	Tewksbury, MA:	<b>OF-4394</b>	Surface Water	18-Jun-21 09:30	18-Jun-21 12:55

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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[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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Date Reported : 21-Jun-21 15:30

## REPORT OF ANALYSIS

sampled Date: 18-Jun-2021 07:50

121062037.01

Tewksbury, MA

OF-4331

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	6	1	mpn/100mL	06/18/2021 13:20	SM 9223B	SH

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](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)

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Date Reported : 21-Jun-21 15:30

## REPORT OF ANALYSIS

sampled Date: 18-Jun-2021 09:35

121062037.02

Tewksbury, MA

OF-4393

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	2	1	mpn/100mL	06/18/2021 13:20	SM 9223B	SH

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](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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Date Reported : 21-Jun-21 15:30

## REPORT OF ANALYSIS

sampled Date: 18-Jun-2021 09:30

121062037.03

Tewksbury, MA

OF-4394

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	365	1	mpn/100mL	06/18/2021 13:20	SM 9223B	SH

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](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

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

Client: Weston & Sampson: 21 June 2021

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
121062078.01	Tewksbury, MA:	<b>OF-4637</b>	Surface Water	18-Jun-21 13:24	18-Jun-21 15:20
121062078.02	Tewksbury, MA:	<b>OF-4638</b>	Surface Water	18-Jun-21 13:50	18-Jun-21 15:20

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:NH2572

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 : 21-Jun-21 15:32

## REPORT OF ANALYSIS

sampled Date: 18-Jun-2021 01:24

121062078.01

Tewksbury, MA

OF-4637

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	21	1	mpn/100mL	06/18/2021 16:25	SM 9223B	SH

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Date Reported : 21-Jun-21 15:32

## REPORT OF ANALYSIS

sampled Date: 18-Jun-2021 01:50

121062078.02

Tewksbury, MA

OF-4638

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	12	1	mpn/100mL	06/18/2021 16:25	SM 9223B	SH

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[http://healthvermont.gov/enviro/ph\\_lab/PublicHealthLaboratory.aspx](http://healthvermont.gov/enviro/ph_lab/PublicHealthLaboratory.aspx)  
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Client: Weston & Sampson: 29 June 2021

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
121062959.01	Tewksbury, MA:	<b>OF-4127</b>	Surface Water	28-Jun-21 12:32	28-Jun-21 15:15

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:



Andrew Nelson Laboratory Director



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Date Reported : 29-Jun-21 15:47

## REPORT OF ANALYSIS

sampled Date: 28-Jun-2021 12:32

121062959.01

Tewksbury, MA

OF-4127

### *E.Coli Water*

Analyte	Result	Reporting Limit	Units	Analyzed	Method	Analyst
E. coli Bacteria	6	1	mpn/100mL	06/28/2021 15:55	SM 9223B	SH

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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<https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml>  
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