

**MASSACHUSETTS CONTINGENCY PLAN  
IMMEDIATE RESPONSE ACTION STATUS REPORT  
and  
LANDFILL MONITORING REPORT  
1<sup>st</sup> QUARTER 2016**

**TOWN OF EASTHAM LANDFILL  
255 OLD ORCHARD ROAD  
EASTHAM, MASSACHUSETTS**

**DEP RTN 4-24301**

March 25, 2016

Prepared for:

Town of Eastham  
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ES&M Project No. 2015-038

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## 1.0 INTRODUCTION

This Immediate Response Action (IRA) Status report has been prepared in accordance with the Massachusetts Contingency Plan (MCP) for Massachusetts Department of Environmental Protection (MassDEP) Release Tracking Number (RTN) 4-24301 by Environmental Strategies & Management, Inc. (ES&M) on behalf of the Town of Eastham. This report also satisfies the reporting requirements described in the Town of Eastham's Landfill Monitoring Plan (LMP), approved by MassDEP on August 14, 2012, and modified on September 25, 2014.

### 1.1 Background

Previous status reports published by ES&M have provided background information regarding the Eastham Landfill and the occurrence of 1,4-dioxane in drinking water wells around the landfill. The most recent report that includes this information is the IRA Status Report for the first quarter of 2014 (submitted to MassDEP by ES&M on March 31, 2014). Since the background information does not change, quarterly status reports focus on activities completed during the specific report period.

During Town Meeting held on Monday, May 4, 2015, voters in Eastham approved funding for a municipal water system that will bring public water to the entire town. This approval supplements the "backbone" water system that was approved in 2014. The municipal water system, once in place and operational, will serve as a permanent solution to mitigate the presence of 1,4-dioxane in private drinking water wells.

### 1.2 Purpose

This IRA Status and Landfill Monitoring Report documents activities undertaken at and around the Eastham Landfill between December 1, 2015 and February 29, 2016.

## 2.0 IMMEDIATE RESPONSE ACTION ACTIVITIES

The primary focus of the IRA program has been to identify private drinking water wells that have been impacted by 1,4-dioxane in groundwater emanating from the landfill, and to provide alternative safe drinking water to affected residents. The IRA program has also included evaluation of appropriate and feasible mitigating measures to remove 1,4-dioxane from drinking water. In 2014, IRA measures also included activities to better understand the nature and origin of other sources of 1,4-dioxane in the drinking water aquifer.

The IRA status reports submitted in 2013 provided details of the initial IRA activities. An IRA Plan Modification was submitted on March 6, 2014, to describe implementation of alternate laboratory methods, outline a revised private well sampling protocol, clarify the ongoing monitoring schedule, and summarize future IRA activities. A second IRA

Plan Modification was submitted on June 30, 2015 which discontinued annual drinking water sample collection and laboratory analysis from wells exhibiting concentrations of 1,4-dioxane above 0.3 µg/L, since residents in this category have been advised to use bottled water for consumptive purposes. The Town offers to provide bottled water to all residents in this category until they are connected to the Town's municipal water system.

The following summarizes the current sampling criteria:

1. Quarterly collection and laboratory analysis of water samples from wells where concentrations of 1,4-dioxane has been detected above the reporting limit of 0.2 µg/L but below the MCP GW-1 Standard and MassDEP Office of Research and Standards Guideline (ORSG) of 0.3 µg/L;
2. Confirmatory collection and laboratory analysis of water samples from wells within the study area that are adjacent to a private well with a concentration of 1,4-dioxane above 0.3 µg/L.
3. Collection and laboratory analysis of water samples from the water system at the Eastham Elementary School on a quarterly basis.
4. When possible, collection of drinking water samples from residential wells within the study area that have not yet been tested for 1,4-dioxane.

In addition to the above criteria, ES&M has collected numerous water samples from private wells outside of the study area (referred to as "background" study). While not part of the MassDEP-approved IRA Plan, the data from this background study has provided valuable information on the occurrence of 1,4-dioxane in groundwater that is not affected by the Eastham Landfill.

## **2.1 Private Well Sampling - Status Update**

### **2.1.1 Summary of Sampling Activities**

During this report period, drinking water samples were collected from the Eastham Elementary School and four study area properties where concentrations of 1,4-dioxane have been detected above the laboratory reporting limit of 0.2 µg/L but below the GW-1 standard and the ORSG guideline of 0.3 µg/L. The sampling event was conducted on February 12, 2016. Field notes for this sampling event are included in Appendix A. All samples were preserved in the field and submitted to Alpha Analytical Laboratories in Mansfield, Massachusetts, for 1,4-dioxane analysis by EPA Method 8270 SIM.

### **2.1.2 Sampling Results**

All laboratory results were reviewed to determine if 1,4-dioxane was detected above the MCP GW-1 Standard/ORSG and bottled water action limit of 0.3 µg/L. The Town of Eastham continues to provide bottled water to residences where water tests have indicated a concentration of 1,4-dioxane above 0.3 µg/L. During this report period, no

new properties were added to the list of properties eligible for bottled water. The complete list of properties eligible for bottled water through this report period is presented in Table 1. Table 2 summarizes 1,4-dioxane analytical results of samples collected during this report period as well as all previous phases of the private well sampling program<sup>1</sup>.

All of the properties tested for 1,4-dioxane during this report period have been tested previously, and the results from this sampling event were consistent with previous sampling results.

The Site Map included as Figure 1 shows the properties within the study area; each parcel is color coded with one of four colors to represent the sampling results:

- Gray = 1,4-dioxane has not been detected in any sample collected from these properties. Well water test results in this category were below the reporting limit for 1,4-dioxane (approximately 0.15 µg/L). Since an estimated concentration (“J” value) was not reported, it is inferred that 1,4-dioxane is not present above the detection limit (approximately 0.04 µg/L).
- Yellow = 1,4-dioxane has been detected in at least one sample collected from these properties, but at a concentration(s) below the MCP GW-1 Standard/ORSG of 0.3 µg/L. Laboratory results that are below 0.3 µg/L but above the laboratory reporting limit are quantified results, while results below the laboratory reporting limit and above the method detection limit of 0.04 µg/L are qualified as estimated values (reported with a “J” qualifier).
- Red = 1,4-dioxane has been detected in at least one sample collected from these properties at or above 0.3 µg/L. All residents in this category have been offered bottled water and have been advised to not use their well water for consumptive purposes.
- White = well water not tested, most likely because homeowners have not been available during scheduled sampling events.
- White with NR = owners of these properties were contacted by certified mail; however, no response was received or access was not granted.
- White/hatched = no well is present on these properties.

Appendix B contains the laboratory report for samples collected during this report period. ES&M completed a quality assessment/quality control review of the laboratory report and it was deemed usable. ES&M’s review log serves as the cover page for the laboratory report in Appendix B. As required by 310 CMR 40.1403(10) of the MCP, property owners were notified of the laboratory results for samples collected from their

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<sup>1</sup> Results for background samples collected outside of the study area are included at the end of Table 2.

properties. Copies of the notification form (BWSC form 123) that were sent are included in Appendix C<sup>2</sup>.

## **2.2 Activated Carbon Adsorption Treatment System - Status Update**

A secondary goal of the IRA program was to evaluate appropriate and feasible mitigating measures to remove 1,4-dioxane from drinking water. As described in previous IRA status reports, an activated carbon system consisting of two carbon vessels and a flow meter was installed at 255 Alston Avenue. The efficacy of this system was conducted between November 2013 and February 2015. The test results allowed us to determine that for this residence, this system can effectively treat approximately 10,000 to 11,000 gallons of water (about 90 days of treatment).

Since the efficacy of the carbon system has been proven and well documented, the town has decided to conclude activated carbon system testing. The carbon treatment system remains in use at 255 Alston Avenue with scheduled carbon changes to be conducted by ES&M approximately every 90 days.

## **2.3 MCP Notifications for IRA Status Report Submittal**

As required by the MCP, notice of the electronic submittal of this IRA status report to MassDEP is provided to the Town of Eastham Board of Health and Chief Municipal Officer. A copy of the notification letter pertaining to this report is included in Appendix D.

## **3.0 LANDFILL MONITORING PROGRAM ACTIVITIES**

On September 25, 2014, ES&M submitted a letter to MassDEP - Solid Waste Management Section titled "Work Plan for Comprehensive Site Assessment Update". The work plan described installation of temporary groundwater sampling wells (ESMT-1 through ESMT-7, shown on Figure 1), and collection of groundwater samples throughout the study area to better understand the nature and extent of 1,4-dioxane emanating from the landfill. The work also included the collection of water level data in monitoring wells and private wells to better understand horizontal and vertical groundwater flow direction in the study area. Much of the field work described in this work plan was completed in October and November 2014, and a letter report was issued to MassDEP on January 20, 2015 to summarize the findings (see Appendix E of IRA Status Report for Q1 2015).

Permanent monitoring wells and additional groundwater sampling and monitoring activities were completed in the fall of 2015. The new monitoring wells (labeled ESMW-1 through 4) are shown on Figure 1. An updated CSA report will be prepared in the summer of 2016 to document groundwater sampling and monitoring results.

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<sup>2</sup>Although not included in Appendix C, each homeowner received a personalized letter, copies of the laboratory report for samples collected from their well in addition to the BWSC transmittal form 123, and a lab report diagram.

The September 25<sup>th</sup> letter also proposed minor revisions to the August 2012 Landfill Monitoring Plan (LMP). The LMP required the collection of water samples from 19 private drinking water wells near the landfill as well as from monitoring wells and a non-potable well on the landfill property. The residential properties were included in the LMP to identify private wells that may be impacted by releases from the landfill. Since some of the residences included in the LMP now receive bottled drinking water from the Town of Eastham, and will continue to receive bottled water until the public drinking water system is installed and operational, continued sampling of these wells under the LMP no longer provides useful information. Residences on the LMP list that are not receiving bottled water from the Town will remain in the LMP (and IRA) sampling programs. A summary of the revised LMP sampling requirements and schedule is shown on Table 3.

### **3.1 Landfill Monitoring Well Sample Collection**

The following section summarizes the landfill monitoring well samples collected during the report period as prescribed by the LMP. The locations of these wells within the limits of the landfill are shown on Figure 1. The following samples were collected by Barnstable County Department of Health and Environment (BCDHE) personnel and submitted to Alpha Analytical for analysis:

- On February 23, 2016, BCDHE personnel collected quarterly groundwater samples from landfill monitoring wells MW-3I and MW-3D for analysis of VOCs, 1,4-dioxane, metals and indicator parameters.

Current and historic laboratory results for LMP samples are summarized on Table 4, which includes applicable regulatory standards and/or guidelines. Field logs are included in Appendix A, and the complete laboratory report is included in Appendix B.

### **3.2 Landfill Gas Monitoring**

Personnel from BCDHE conduct soil gas monitoring at the Eastham Landfill semi-annually - once during the spring and once in the fall. Soil gas monitoring was not conducted during this report period.

### **3.3 Private Well Sample Collection**

As previously stated, the LMP sampling program was recently revised to include only annual collection of drinking water samples from eight residences (nine wells) that are not currently receiving bottled water. The 2015 annual drinking water samples were collected from all but three of the residences on this list during previous report periods<sup>3</sup>. The next round of LMP residential drinking water samples will be collected during the second quarter of 2016.

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<sup>3</sup> Homeowners from three properties on the LMP list could not be reached to set up sampling appointments.

## 4.0 FUTURE SCHEDULE OF IRA AND LMP ACTIVITIES

During the next reporting period from March through May 2016, the following IRA and LMP activities are planned:

### 4.1 *Immediate Response Action*

- Collection of drinking water samples from residences within the study area that have not yet been tested for 1,4-dioxane;
- Continued collection of drinking water samples under the criteria outlined in the IRA Plan Modification;
- Review of laboratory results to determine if any additional residences meet the bottled water action limit of 0.3 ug/L; and
- Preparation of sampling results notification packages for all residents whose drinking water is tested during the report period.

### 4.2 *Landfill Monitoring Plan*

- Collection of quarterly groundwater samples from wells MW-3I and MW-3D for analysis of indicator parameters, metals and VOCs including 1,4-dioxane.
- Collection of semi-annual samples from landfill monitoring well MW-21S for analysis of VOCs including 1,4-dioxane.
- Semi-annual monitoring of landfill gas wells.
- Collection of annual drinking water samples from residential properties (listed on Table 3) for metals and VOCs including 1,4-dioxane as described on Section 3.3.

## 5.0 PUBLIC OUTREACH

Our communication plan continues to include the following elements to keep the public informed of all aspects of this project:

### **Availability of Reports**

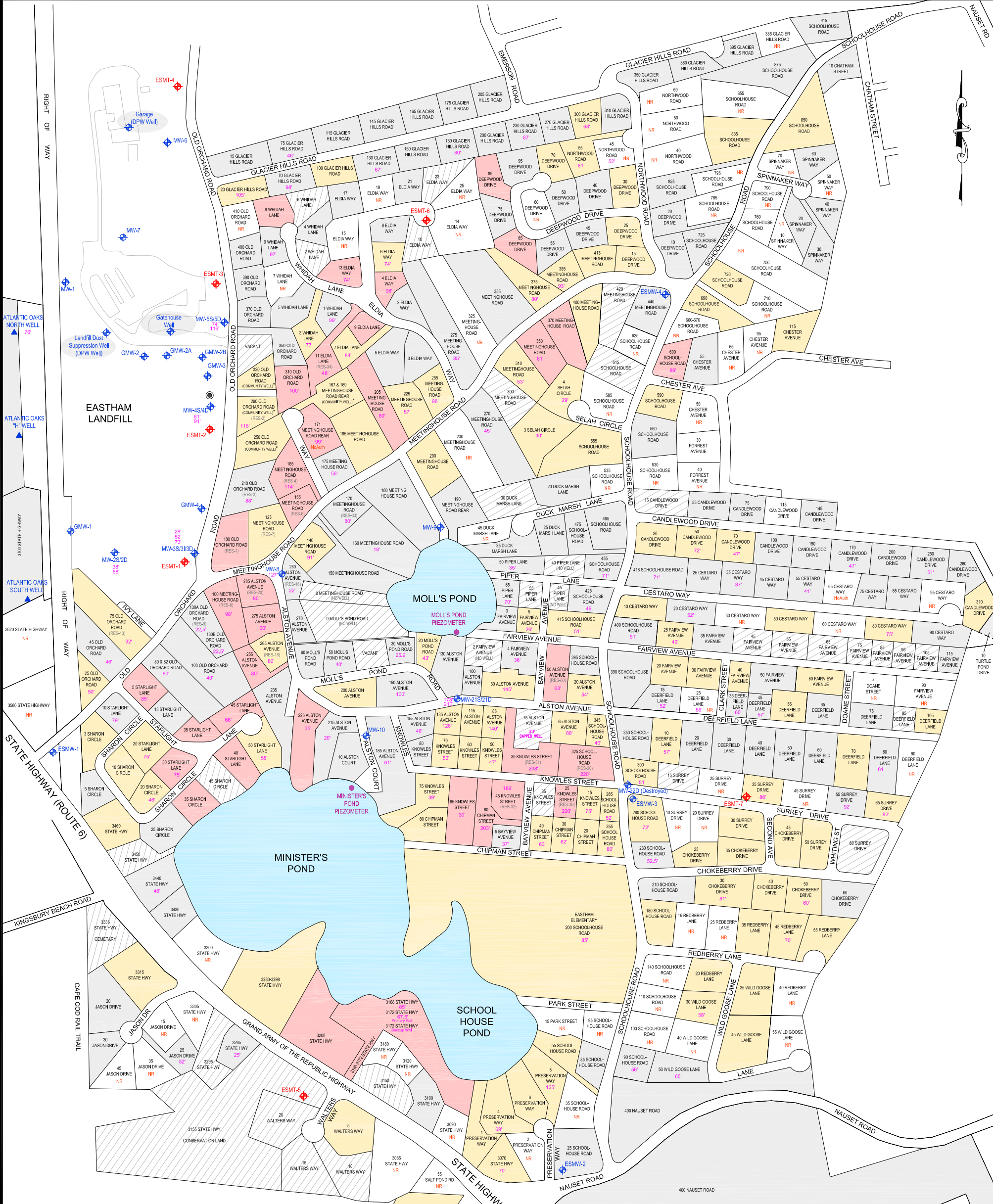
All reports required by MassDEP are available on their website (<http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=4-0024301>). The Town of Eastham's also posts these reports on their website ([http://www.eastham-ma.gov/Public\\_Documents/EasthamMA\\_Health/LandfillFolder/](http://www.eastham-ma.gov/Public_Documents/EasthamMA_Health/LandfillFolder/)). Hard copies of reports are available at Town Hall and at the Eastham Public Library.

### **Direct Communications**

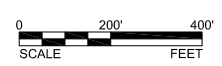
Questions on the ongoing work related to this matter may be directed to:

- Jane Crowley, Health Agent, Eastham Board of Health  
508-240-5900, x229 or by email at [jcrowley@eastham-ma.gov](mailto:jcrowley@eastham-ma.gov)

- Doug Heely, Licensed Site Professional, Environmental Strategies & Mgmt.  
508-226-1800 or by email at [dheely@esm-inc.com](mailto:dheely@esm-inc.com)



- LEGEND**
- MONITORING WELL
  - WATER SUPPLY WELL
  - PIEZOMETER
  - TEMPORARY VERTICAL PROFILE WELL
  - ELECTRICAL CONDUCTIVITY BORING
  - WELL DEPTH BELOW GROUND SURFACE
  - VACANT PROPERTY / NO WELL
  - 1,4 DIOXANE DETECTED AT OR ABOVE 0.3 ug/L
  - 1,4 DIOXANE DETECTED BELOW 0.3 ug/L
  - 1,4 DIOXANE NOT DETECTED
  - PROPERTY NOT TESTED
- The color coding is based on the highest concentration of 1,4 dioxane detected in drinking water samples collected at the property.



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|                 |  |                     |
|-----------------|--|---------------------|
| GAUGING DATE:   | DRAWING DATE:                              | ACAD FILE:          |
|                 | 12/9/15                                    | EASTHAM LANDFILL    |
| <b>SITE MAP</b> |  |                     |
| CLIENT:         | TOWN OF EASTHAM                            | PM:                 |
| LOCATION:       | OLD ORCHARD ROAD<br>EASTHAM, MASSACHUSETTS | LSP:<br>DH          |
| RTN:            | DWG:                                       | PROJECT NO.:        |
| 4-24301         | DMR  | 2015-038            |
|                 |  | FIGURE:<br><b>1</b> |

C:\Users\james\Documents\2015\2015-038\2015-038.dwg, 12/9/15, 10:00 AM, 10/10/2015, 10:00 AM, 10/10/2015, 10:00 AM

**TABLE 1**  
**AFFECTED PROPERTIES ELIGIBLE FOR BOTTLED WATER**  
**Eastham Landfill Private Well Sampling Program**  
**Eastham, MA**

50 ALSTON AVENUE  
225 ALSTON AVENUE  
255 ALSTON AVENUE  
275 ALSTON AVENUE  
285 ALSTON AVENUE  
60 CHIPMAN STREET  
65 DEEPWOOD DRIVE  
85 DEEPWOOD DRIVE  
4 ELDIA WAY  
9 ELDIA WAY  
11 ELDIA WAY  
13 ELDIA WAY  
25 KNOWLES STREET  
30 KNOWLES STREET (A & B)  
45 KNOWLES STREET  
65 KNOWLES STREET  
100 MEETINGHOUSE ROAD (A & B)  
155 MEETINGHOUSE ROAD  
165 MEETINGHOUSE ROAD  
171 MEETINGHOUSE ROAD REAR (A, B & C)  
205 MEETINGHOUSE ROAD  
350 MEETINGHOUSE ROAD  
370 MEETINGHOUSE ROAD  
180 OLD ORCHARD ROAD  
310 OLD ORCHARD ROAD  
325 SCHOOLHOUSE ROAD  
600 SCHOOLHOUSE ROAD  
35 SHARON CIRCLE  
5 STARLIGHT LANE  
30 STARLIGHT LANE  
35 STARLIGHT LANE  
40 STARLIGHT LANE  
45 STARLIGHT LANE  
3168 STATE HWY  
3172 STATE HWY BACKUP WELL  
3172 STATE HWY PRIMARY WELL  
3200 STATE HWY  
8 WHIDAH LANE

**TABLE 2  
SUMMARY OF  
PRIVATE WELL SAMPLING PROGRAM ANALYTICAL RESULTS  
1,4 DIOXANE  
Residential Drinking Water Wells  
Eastham, MA  
(All results in ug/l)**

| Property                  | Date              | Duplicate | 1,4 Dioxane |
|---------------------------|-------------------|-----------|-------------|
| <b>Study Area Samples</b> |                   |           |             |
| 20 ALSTON AVENUE          | 2/22/2013         |           | 0.18J       |
| 50 ALSTON AVENUE          | 3/2/2015          |           | 0.278       |
|                           | 3/2/2015          | Duplicate | 0.264       |
|                           | 4/14/2014         |           | 0.218       |
|                           | 4/14/2014         | Duplicate | 0.210       |
|                           | 9/18/2013         |           | 0.37        |
|                           | 7/25/2013         |           | 0.18J       |
|                           | 6/27/2013         |           | 0.18J       |
|                           | 5/29/2013         |           | 0.20        |
|                           | 5/1/2013          |           | 0.18J       |
|                           | 3/14/2013         |           | 0.20        |
|                           | 3/4/2013          |           | 0.23        |
|                           | 3/4/2013          |           | 0.23        |
|                           | 2/14/2013         |           | 5.1         |
|                           | 2/14/2013         | Duplicate | 5.0         |
| 65 ALSTON AVENUE          | 3/24/2014         |           | 0.0813J     |
|                           | 2/19/2013         |           | 0.099J      |
| 80 ALSTON AVENUE          | 3/28/2014         |           | <0.150      |
|                           | 8/27/2013         |           | 0.057J      |
|                           | 2/11/2013         |           | <0.20       |
| 85 ALSTON AVENUE          | 2/12/2016         |           | 0.125J      |
|                           | 11/11/2015        |           | 0.130J      |
|                           | 8/12/2015         |           | 0.175       |
|                           | 8/12/2015         | Duplicate | 0.194       |
|                           | 5/13/2015         |           | 0.207       |
|                           | 5/13/2015         | Duplicate | 0.196       |
|                           | 2/13/2015         |           | 0.163       |
|                           | 11/20/2014        |           | 0.248       |
|                           | 11/20/2014        | Duplicate | 0.236       |
|                           | 5/5/2014          |           | 0.236       |
|                           | 5/5/2014          | Duplicate | 0.210       |
|                           | 2/12/2013         |           | 0.20        |
|                           | 100 ALSTON AVENUE | 2/11/2013 |             |
| 115 ALSTON AVENUE         | 7/22/2013         |           | 0.12J       |
| 130 ALSTON AVENUE         | 2/19/2013         |           | <0.20       |
| 135 ALSTON AVENUE         | 2/11/2013         |           | 0.11J       |
| 150 ALSTON AVENUE         | 2/15/2013         |           | <0.20       |
| 155 ALSTON AVENUE         | 2/11/2013         |           | <0.20       |
| 185 ALSTON AVENUE         | 2/14/2013         |           | <0.20       |
| 200 ALSTON AVENUE         | 5/9/2014          |           | <0.144      |
|                           | 12/2/2013         |           | 0.15J       |
|                           | 5/1/2013          |           | 0.21        |
| 215 ALSTON AVENUE         | 7/31/2014         |           | <0.144      |
|                           | 2/12/2013         |           | <0.20       |

1Q2016

Notes: NS - Not Sampled  
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
 B - Analyte detected in Blank and Sample  
 L - LCS or LCSD exceeded the control limits. Results may be biased high.  
 GW-1 Standard and ORSG for 1,4 dioxane is 0.3 ug/L  
Samples collected during this quarter are highlighted in red.

| Property                 | Date           | Duplicate | 1,4 Dioxane |
|--------------------------|----------------|-----------|-------------|
| 225 ALSTON AVENUE        | 5/6/2014       |           | 0.350       |
|                          | 5/6/2014       | Duplicate | 0.365       |
|                          | 4/29/2013      |           | 1.2         |
| 235 ALSTON AVENUE        | 8/5/2014       |           | <0.142      |
|                          | 7/31/2013      |           | <0.20       |
| 255 ALSTON AVENUE        | Inf 2/13/2015  |           | 2.14        |
|                          | Inf 1/23/2015  |           | 2.13        |
|                          | Inf 11/19/2014 |           | 2.27        |
|                          | Inf 8/3/2014   |           | 2.03        |
|                          | Inf 6/19/2014  |           | 2.12        |
|                          | 8/27/2013      |           | 1.8         |
|                          | 5/6/2013       |           | 1.8         |
|                          | 5/6/2013       | Duplicate | 1.5         |
|                          | 2/14/2013      |           | 1.9         |
|                          | 2/14/2013      | Duplicate | 1.8         |
| 265 ALSTON AVENUE        | 4/1/2015       |           | <0.148      |
|                          | 3/28/2014      |           | <0.139      |
|                          | 12/18/2013     |           | <0.20       |
|                          | 3/14/2013      |           | 0.055J      |
| 270 ALSTON AVENUE        | 8/4/2014       |           | <0.142      |
|                          | 2/11/2013      |           | <0.20       |
| 275 ALSTON AVENUE        | 7/17/2014      |           | 1.28        |
|                          | 7/17/2014      | Duplicate | 1.35        |
|                          | 5/16/2013      |           | 1.3         |
|                          | 5/16/2013      | Duplicate | 0.99        |
| 280 ALSTON AVENUE        | 5/13/2015      |           | <0.156      |
|                          | 12/17/2014     |           | <0.142      |
|                          | 12/18/2013     |           | <0.20       |
|                          | 2/22/2013      |           | <0.20       |
| 285 ALSTON AVENUE        | 9/18/2014      |           | 0.416       |
|                          | 3/14/2014      |           | 0.636       |
|                          | 11/20/2013     |           | 0.51        |
|                          | 5/8/2013       |           | 0.35        |
|                          | 2/22/2013      |           | 0.37        |
|                          | 2/22/2013      | Duplicate | 0.33        |
| 10 ALSTON COURT          | 2/14/2013      |           | <0.20       |
| ATLANTIC OAKS 'H' WELL   | 7/25/2013      |           | <0.20       |
| ATLANTIC OAKS NORTH WELL | 7/25/2013      |           | <0.20       |
| ATLANTIC OAKS-SOUTH WELL | 7/23/2013      |           | <0.20       |
| 5 BAYVIEW AVENUE         | 8/1/2014       |           | <0.147      |
|                          | 2/25/2013      |           | <0.20       |
| 20 CANDLEWOOD DRIVE      | 5/29/2013      |           | 0.056J      |
| 50 CANDLEWOOD DRIVE      | 5/3/2013       |           | 0.092J      |
| 55 CANDLEWOOD DRIVE      | 7/25/2013      |           | <0.20       |
| 70 CANDLEWOOD DRIVE      | 5/3/2013       |           | 0.073J      |
| 75 CANDLEWOOD DRIVE      | 7/17/2014      |           | <0.147      |
| 100 CANDLEWOOD DRIVE     | 5/3/2013       |           | <0.20       |
| 145 CANDLEWOOD DRIVE     | 5/2/2013       |           | <0.20       |
| 150 CANDLEWOOD DRIVE     | 5/2/2013       |           | <0.20       |
| 170 CANDLEWOOD DRIVE     | 7/25/2013      |           | <0.20       |
| 200 CANDLEWOOD DRIVE     | 5/8/2013       |           | <0.20       |

Notes: NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
L - LCS or LCSD exceeded the control limits. Results may be biased high.  
GW-1 Standard and ORSG for 1,4 dioxane is 0.3 ug/L  
Samples collected during this quarter are highlighted in red.

| Property             | Date       | Duplicate | 1,4 Dioxane |
|----------------------|------------|-----------|-------------|
| 250 CANDLEWOOD DRIVE | 5/7/2013   |           | <0.20       |
| 280 CANDLEWOOD DRIVE | 5/6/2013   |           | <0.20       |
| 310 CANDLEWOOD DRIVE | 9/19/2014  |           | <0.15       |
|                      | 4/30/2013  |           | 0.060J      |
| 10 CESTARO WAY       | 4/30/2013  |           | 0.11J       |
| 20 CESTARO WAY       | 5/2/2013   |           | <0.20       |
| 25 CESTARO WAY       | 12/3/2013  |           | <0.20       |
| 35 CESTARO WAY       | 4/30/2013  |           | <0.20       |
| 45 CESTARO WAY       | 5/2/2013   |           | <0.20       |
| 50 CESTARO WAY       | 5/6/2013   |           | 0.077J      |
| 55 CESTARO WAY       | 5/2/2013   |           | <0.20       |
| 75 CESTARO WAY       | 5/6/2013   |           | <0.20       |
| 80 CESTARO WAY       | 2/21/2013  |           | 0.061J      |
| 85 CESTARO WAY       | 12/3/2013  |           | <0.20       |
| 90 CESTARO WAY       | 5/2/2013   |           | <0.20       |
| 10 CHATHAM STREET    | 10/6/2015  |           | <0.150      |
| 55 CHESTER AVE       | 1/30/2015  |           | <0.144      |
| 115 CHESTER AVENUE   | 10/5/2015  |           | 0.114J      |
| 20 CHIPMAN STREET    | 7/25/2013  |           | 0.041J      |
| 30 CHIPMAN STREET    | 3/27/2014  |           | 0.0969J     |
|                      | 2/11/2013  |           | 0.14J       |
| 40 CHIPMAN STREET    | 6/26/2014  |           | <0.139      |
|                      | 7/31/2013  |           | 0.046J      |
| 60 CHIPMAN STREET    | 5/8/2014   |           | 0.382       |
|                      | 5/8/2014   | Duplicate | 0.341       |
|                      | 12/6/2013  |           | 0.27        |
|                      | 12/6/2013  | Duplicate | 0.30        |
|                      | 4/30/2013  |           | 0.29        |
| 80 CHIPMAN STREET    | 2/15/2013  |           | 0.047J      |
| 25 CHOKEBERRY DRIVE  | 12/2/2013  |           | 0.15J       |
| 30 CHOKEBERRY DRIVE  | 5/7/2013   |           | 0.17J       |
| 35 CHOKEBERRY DRIVE  | 5/3/2013   |           | 0.050J      |
| 40 CHOKEBERRY DRIVE  | 5/2/2013   |           | 0.069J      |
| 45 CHOKEBERRY DRIVE  | 5/16/2013  |           | 0.11J       |
| 50 CHOKEBERRY DRIVE  | 5/10/2013  |           | 0.058J      |
| 60 CHOKEBERRY DRIVE  | 4/11/2014  |           | <0.142      |
| 10 DEEPWOOD DR       | 1/30/2015  |           | <0.142      |
| 15 DEEPWOOD DRIVE    | 9/17/2013  |           | 0.051J      |
| 20 DEEPWOOD DRIVE    | 5/29/2015  |           | <0.147      |
| 25 DEEPWOOD DRIVE    | 2/12/2016  |           | <0.147      |
|                      | 11/11/2015 |           | <0.150      |
|                      | 7/30/2013  |           | 0.073J      |
| 30 DEEPWOOD DRIVE    | 7/31/2013  |           | 0.040J      |
| 40 DEEPWOOD DRIVE    | 7/24/2013  |           | <0.20       |
| 45 DEEPWOOD DRIVE    | 7/24/2013  |           | <0.20       |
| 50 DEEPWOOD DRIVE    | 1/23/2015  |           | <0.150      |
|                      | 12/3/2013  |           | <0.20       |
| 55 DEEPWOOD DRIVE    | 8/25/2014  |           | <0.139      |
|                      | 7/25/2013  |           | <0.20       |

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| Property                      | Date      | Duplicate | 1,4 Dioxane |
|-------------------------------|-----------|-----------|-------------|
| 65 DEEPWOOD DRIVE             | 3/17/2015 |           | 0.481       |
|                               | 3/28/2014 |           | 0.297       |
|                               | 3/28/2014 | Duplicate | 0.336       |
|                               | 7/30/2013 |           | 0.29        |
|                               | 7/30/2013 | Duplicate | 0.24        |
| 70 DEEPWOOD DRIVE             | 7/30/2013 |           | 0.073J      |
| 75 DEEPWOOD DRIVE             | 8/1/2014  |           | <0.144      |
|                               | 7/30/2013 |           | <0.20       |
| 85 DEEPWOOD DRIVE             | 9/17/2013 |           | 0.63        |
| 95 DEEPWOOD DRIVE             | 3/17/2015 |           | <0.158      |
|                               | 12/3/2013 |           | <0.20       |
| 10 DEERFIELD LANE             | 5/1/2013  |           | 0.052J      |
| 15 DEERFIELD LANE             | 4/30/2013 |           | <0.20       |
| 20 DEERFIELD LANE             | 5/8/2013  |           | <0.20       |
| 30 DEERFIELD LANE             | 7/22/2013 |           | <0.20       |
| 35 DEERFIELD LANE             | 2/25/2013 |           | <0.20       |
| 40 DEERFIELD LANE             | 5/1/2013  |           | <0.20       |
| 45 DEERFIELD LANE             | 5/2/2013  |           | <0.20       |
| 50 DEERFIELD LANE             | 5/3/2013  |           | <0.20       |
| 55 DEERFIELD LANE             | 4/29/2013 |           | 0.062J      |
| 60 DEERFIELD LANE             | 5/6/2013  |           | <0.20       |
| 65 DEERFIELD LANE             | 5/6/2013  |           | <0.20       |
| 70 DEERFIELD LANE             | 5/8/2013  |           | 0.048J      |
| 75 DEERFIELD LANE             | 7/25/2013 |           | <0.20       |
| 80 DEERFIELD LANE             | 5/1/2013  |           | <0.20       |
| 105 DEERFIELD LANE            | 5/8/2013  |           | 0.067J      |
| DPW GARAGE                    | 2/7/2014  |           | <0.20       |
| GATEHOUSE AT TRANSFER STATION | 2/11/2014 |           | <0.20       |
| DPW NON-POTABLE WELL          | 2/25/2013 |           | <0.20       |
| 20 DUCKMARSH LANE             | 4/30/2013 |           | <0.20       |
| 25 DUCKMARSH LANE             | 5/2/2013  |           | <0.20       |
| 35 DUCK MARSH LANE            | 12/6/2013 |           | <0.20       |
| 2 ELDIA WAY                   | 8/4/2014  |           | <0.142      |
|                               | 8/2/2013  |           | <0.20       |
|                               | 5/3/2013  |           | <0.20       |
| 3 ELDIA WAY                   | 5/3/2013  |           | <0.20       |
| 4 ELDIA WAY                   | 8/4/2014  |           | <0.144      |
|                               | 5/7/2014  |           | 0.451       |
|                               | 5/7/2014  | Duplicate | 0.449       |
|                               | 5/8/2013  |           | 0.089J      |
|                               | 1/23/2015 |           | <0.163      |
| 5 ELDIA WAY                   | 4/30/2013 |           | <0.20       |
|                               | 5/9/2014  |           | <0.144      |
| 6 ELDIA WAY                   | 12/5/2013 |           | 0.15J       |
|                               | 3/24/2014 |           | <0.150      |
| 7 ELDIA WAY                   | 5/10/2013 |           | 0.045J      |
|                               | 12/5/2013 |           | <0.20       |
| 8 ELDIA WAY                   | 12/5/2013 |           | <0.20       |
| 9 ELDIA WAY                   | 5/6/2014  |           | 0.309       |
|                               | 5/6/2014  | Duplicate | 0.284       |
|                               | 12/5/2013 |           | 0.31        |
|                               | 12/5/2013 | Duplicate | 0.27        |
|                               | 5/2/2013  |           | 0.25        |

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| Property               | Date      | Duplicate | 1,4 Dioxane |
|------------------------|-----------|-----------|-------------|
| 11 ELDIA WAY           | 5/7/2014  |           | 3.58        |
|                        | 5/7/2014  | Duplicate | 3.61        |
|                        | 9/17/2013 |           | 3.7         |
|                        | 7/25/2013 |           | 3.0         |
|                        | 6/27/2013 |           | 4.3         |
|                        | 6/27/2013 | Duplicate | 3.4         |
|                        | 5/29/2013 |           | 4.3         |
|                        | 5/29/2013 | Duplicate | 3.9B        |
|                        | 4/29/2013 |           | 4.2         |
|                        | 4/29/2013 | Duplicate | 3.3         |
|                        | 3/14/2013 |           | 2.9         |
|                        | 3/14/2013 | Duplicate | 3.1         |
| 13 ELDIA WAY           | 5/9/2014  |           | 0.660       |
|                        | 5/9/2014  | Duplicate | 0.659       |
|                        | 7/24/2013 |           | 0.33        |
| 17 ELDIA WAY           | 5/6/2013  |           | <0.20       |
| 21 ELDIA WAY           | 12/5/2013 |           | <0.20       |
| 3 FAIRVIEW AVENUE      | 5/10/2013 |           | <0.20       |
| 4 FAIRVIEW AVENUE      | 8/15/2014 |           | <0.147      |
|                        | 4/29/2013 |           | <0.20       |
| 5 FAIRVIEW AVENUE      | 5/8/2014  |           | <0.144      |
|                        | 2/14/2013 |           | 0.047J      |
| 20 FAIRVIEW AVENUE     | 5/7/2013  |           | 0.093J      |
| 25 FAIRVIEW AVENUE     | 5/7/2013  |           | 0.041J      |
| 30 FAIRVIEW AVENUE     | 12/3/2013 |           | 0.063J      |
| 35 FAIRVIEW AVENUE     | 5/2/2013  |           | <0.20       |
| 40 FAIRVIEW AVENUE     | 5/16/2013 |           | 0.065J      |
| 50 FAIRVIEW AVENUE     | 5/2/2013  |           | <0.20       |
| 60 FAIRVIEW AVENUE     | 5/1/2013  |           | 0.041J      |
| 115 FAIRVIEW AVENUE    | 7/22/2013 |           | <0.20       |
| 15 GLACIER HILLS ROAD  | 3/13/2014 |           | <0.139      |
| 20 GLACIER HILLS ROAD  | 5/6/2014  |           | <0.144      |
|                        | 2/22/2013 |           | 0.071J      |
|                        | 8/4/2014  |           | <0.142      |
| 70 GLACIER HILLS ROAD  | 7/22/2013 |           | <0.20       |
|                        | 6/17/2014 |           | <0.142      |
| 100 GLACIER HILLS ROAD | 5/8/2013  |           | 0.058J      |
| 115 GLACIER HILLS ROAD | 4/14/2014 |           | <0.144      |
| 130 GLACIER HILLS ROAD | 7/23/2013 |           | <0.20       |
| 145 GLACIER HILLS ROAD | 4/14/2014 |           | <0.144      |
| 150 GLACIER HILLS ROAD | 7/24/2013 |           | <0.20       |
| 165 GLACIER HILLS ROAD | 3/13/2014 |           | <0.139      |
| 175 GLACIER HILLS ROAD | 3/14/2014 |           | <0.139      |
| 180 GLACIER HILLS ROAD | 8/25/2014 |           | <0.142      |
|                        | 8/2/2013  |           | <0.20       |
| 200 GLACIER HILLS ROAD | 8/5/2014  |           | <0.144      |
|                        | 7/31/2013 |           | <0.20       |
| 205 GLACIER HILLS ROAD | 3/14/2014 |           | <0.139      |
| 230 GLACIER HILLS ROAD | 7/25/2013 |           | <0.20       |
| 270 GLACIER HILLS ROAD | 3/11/2014 |           | <0.150      |
| 300 GLACIER HILLS ROAD | 7/31/2013 |           | 0.077J      |
| 310 GLACIER HILLS ROAD | 7/25/2013 |           | <0.20       |

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| Property               | Date       | Duplicate | 1,4 Dioxane |
|------------------------|------------|-----------|-------------|
| 350 GLACIER HILLS ROAD | 10/9/2015  |           | <0.142      |
| 380 GLACIER HILLS ROAD | 10/9/2015  |           | <0.147      |
| 395 GLACIER HILLS ROAD | 10/6/2015  |           | <0.153      |
| 20 JASON DRIVE         | 3/12/2014  |           | <0.150      |
| 25 JASON DRIVE         | 4/14/2014  |           | <0.147      |
| 30 JASON DRIVE         | 3/10/2014  |           | <0.147      |
| 15 KNOWLES STREET      | 5/13/2015  |           | <0.147      |
|                        | 4/26/2013  |           | 0.078J      |
| 25 KNOWLES STREET      | 5/8/2014   |           | 3.72        |
|                        | 5/8/2014   | Duplicate | 3.58        |
|                        | 9/18/2013  |           | 4.3         |
|                        | 8/27/2013  |           | 3.2         |
|                        | 7/25/2013  |           | 2.8         |
|                        | 6/27/2013  |           | 2.8         |
|                        | 6/27/2013  | Duplicate | 3.0         |
|                        | 5/29/2013  |           | 2.7         |
|                        | 5/29/2013  | Duplicate | 2.8B        |
|                        | 4/26/2013  |           | 2.8         |
|                        | 4/26/2013  | Duplicate | 2.6         |
|                        | 2/21/2013  |           | 3.1         |
|                        | 2/21/2013  | Duplicate | 2.9         |
| 30 KNOWLES STREET      | 5/6/2014   |           | 4.79        |
|                        | 5/6/2014   | Duplicate | 4.92        |
|                        | 9/17/2013  |           | 5.4         |
|                        | 8/28/2013  |           | 5.6         |
|                        | 7/30/2013  |           | 5.1         |
|                        | 7/30/2013  | Duplicate | 5.1         |
|                        | 6/27/2013  |           | 5.0         |
|                        | 6/27/2013  | Duplicate | 5.1         |
|                        | 5/29/2013  |           | 4.9         |
|                        | 5/29/2013  | Duplicate | 5.9B        |
|                        | 4/29/2013  |           | 6.0         |
|                        | 4/29/2013  | Duplicate | 5.2         |
|                        | 2/19/2013  |           | 6.9         |
|                        | 2/19/2013  | Duplicate | 6.4         |
| 45 KNOWLES STREET      | 5/6/2014   |           | 2.22        |
|                        | 5/6/2014   | Duplicate | 2.38        |
|                        | 8/28/2013  |           | 2.0         |
|                        | 5/1/2013   |           | 2.3         |
|                        | 5/1/2013   | Duplicate | 2.4         |
| 50 KNOWLES STREET      | 11/11/2015 |           | <0.144      |
|                        | 8/12/2015  |           | <0.144      |
|                        | 8/12/2015  | Duplicate | <0.144      |
|                        | 2/16/2015  |           | 0.195       |
|                        | 6/19/2014  |           | 0.0910J     |
|                        | 4/14/2014  |           | <0.144      |
|                        | 2/19/2013  |           | 0.26        |
|                        | 2/19/2013  | Duplicate | 0.23        |
| 60 KNOWLES STREET      | 3/2/2015   |           | <0.150      |
|                        | 3/2/2015   | Duplicate | <0.152      |
|                        | 12/4/2013  |           | 0.049J      |
|                        | 2/21/2013  |           | 0.063J      |

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| Property                   | Date                  | Duplicate | 1,4 Dioxane |
|----------------------------|-----------------------|-----------|-------------|
| 65 KNOWLES STREET          | 10/28/2014            |           | 0.102J      |
|                            | 6/16/2014             |           | 0.209       |
|                            | 6/16/2014             | Duplicate | 0.217       |
|                            | 3/27/2014             |           | 5.03        |
|                            | 3/27/2014             | Duplicate | 5.42        |
|                            | 7/23/2013             |           | 0.11J       |
| 70 KNOWLES STREET          | 6/16/2014             |           | <0.147      |
|                            | 2/20/2013             |           | 0.057J      |
| 75 KNOWLES STREET          | 5/8/2014              |           | <0.144      |
|                            | 4/30/2013             |           | 0.075J      |
| 80 KNOWLES STREET          | 8/12/2015             |           | <0.144      |
|                            | 8/12/2015             | Duplicate | <0.144      |
| 100 MEETINGHOUSE ROAD      | 9/19/2014             |           | 1.75        |
|                            | 5/6/2014              |           | 1.90        |
|                            | 3/14/2014             |           | 1.73        |
|                            | 11/20/2013            |           | 1.3         |
|                            | 8/27/2013             |           | 1.9         |
|                            | 5/8/2013              |           | 1.8         |
|                            | 5/8/2013              | Duplicate | 1.7         |
|                            | 2/14/2013             |           | 1.6         |
|                            | 2/14/2013             | Duplicate | 1.5         |
|                            | 125 MEETINGHOUSE ROAD | 5/8/2013  |             |
| 140 MEETINGHOUSE ROAD      | 3/24/2014             |           | <0.150      |
|                            | 5/10/2013             |           | 0.11J       |
| 150 MEETINGHOUSE ROAD      | 2/22/2013             |           | <0.20       |
| 155 MEETINGHOUSE ROAD      | 8/15/2014             |           | 0.379       |
|                            | 8/15/2014             | Duplicate | 0.36        |
|                            | 7/31/2013             |           | 0.46        |
|                            | 7/31/2013             | Duplicate | 0.35        |
| 160 MEETINGHOUSE ROAD      | 2/12/2013             |           | <0.20       |
| 165 MEETINGHOUSE ROAD      | 5/9/2014              |           | 0.746       |
|                            | 5/9/2014              | Duplicate | 0.748       |
|                            | 2/15/2013             |           | 0.75        |
|                            | 2/15/2013             | Duplicate | 0.67        |
| 170 MEETINGHOUSE ROAD      | 5/13/2015             |           | <0.144      |
|                            | 8/15/2014             |           | <0.144      |
|                            | 2/15/2013             |           | <0.20       |
| 171 MEETINGHOUSE ROAD REAR | 5/1/2013              |           | 0.58        |
| 175 MEETINGHOUSE ROAD      | 9/19/2014             |           | <0.156      |
|                            | 5/2/2013              |           | <0.20       |
| 180 MEETINGHOUSE ROAD      | 5/1/2013              |           | <0.20       |
| 185 MEETINGHOUSE ROAD      | 3/27/2014             |           | <0.139      |
|                            | 4/30/2013             |           | 0.081J      |
| 190 MEETINGHOUSE ROAD REAR | 5/9/2014              |           | <0.142      |
| 200 MEETINGHOUSE ROAD      | 7/23/2014             |           | <0.147      |
|                            | 5/3/2013              |           | 0.093J      |
| 205 MEETINGHOUSE ROAD      | 5/5/2014              |           | 0.310       |
|                            | 5/5/2014              | Duplicate | 0.319       |
|                            | 12/3/2013             |           | 0.30        |
|                            | 12/3/2013             | Duplicate | 0.26        |

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| Property                         | Date       | Duplicate | 1,4 Dioxane |
|----------------------------------|------------|-----------|-------------|
| 225 MEETINGHOUSE ROAD            | 5/9/2014   |           | 0.196       |
|                                  | 5/9/2014   | Duplicate | 0.178       |
|                                  | 5/10/2013  |           | 0.13J       |
| 255 MEETINGHOUSE ROAD            | 4/26/2013  |           | 0.065J      |
| 270 MEETINGHOUSE ROAD            | 2/16/2015  |           | <0.146      |
| 275 MEETINGHOUSE ROAD            | 8/1/2014   |           | <0.144      |
|                                  | 7/23/2013  |           | <0.20       |
| 310 MEETINGHOUSE ROAD            | 8/12/2015  |           | 0.103J      |
|                                  | 8/12/2015  | Duplicate | 0.113J      |
| 350 MEETINGHOUSE ROAD            | 5/5/2014   |           | 1.23        |
|                                  | 5/5/2014   | Duplicate | 1.24        |
|                                  | 7/25/2013  |           | 1.3         |
|                                  | 7/25/2013  | Duplicate | 1.2         |
| 355 MEETINGHOUSE ROAD            | 12/5/2013  |           | <0.20       |
| 370 MEETINGHOUSE ROAD            | 5/8/2014   |           | 0.339       |
|                                  | 5/8/2014   | Duplicate | 0.316       |
|                                  | 4/30/2013  |           | 0.19J       |
| 375 MEETINGHOUSE ROAD            | 2/12/2016  |           | 0.133J      |
|                                  | 11/11/2015 |           | 0.138J      |
|                                  | 4/1/2015   |           | 0.114J      |
|                                  | 11/20/2014 |           | 0.212       |
|                                  | 11/20/2014 | Duplicate | 0.187       |
|                                  | 3/24/2014  |           | 0.175       |
|                                  | 3/24/2014  | Duplicate | 0.156       |
|                                  | 8/2/2013   |           | 0.19J       |
|                                  | 8/1/2014   |           | <0.142      |
|                                  | 7/24/2013  |           | 0.040J      |
| 400 MEETINGHOUSE ROAD            | 7/24/2013  |           | 0.12J       |
| 415 MEETINGHOUSE ROAD            | 12/3/2013  |           | 0.14J       |
| 440 MEETINGHOUSE ROAD            | 7/31/2013  |           | <0.20       |
| 20 MOLLS POND ROAD               | 2/19/2013  |           | 0.050J      |
| 30 MOLLS POND ROAD               | 2/15/2013  |           | <0.20       |
| 50 MOLLS POND ROAD               | 2/11/2013  |           | <0.20       |
| 60 MOLLS POND ROAD               | 2/11/2013  |           | <0.20       |
| 400 NAUSET ROAD-SALT PND VIS CTR | 8/12/2014  |           | <0.144      |
|                                  | 12/2/2013  |           | <0.20       |
| 55 NORTHWOOD ROAD                | 8/2/2013   |           | 0.15J       |
| 25 OLD ORCHARD ROAD              | 5/6/2013   |           | 0.064J      |
| 45 OLD ORCHARD ROAD              | 3/17/2015  |           | <0.167      |
|                                  | 2/22/2013  |           | <0.20       |
| 75 OLD ORCHARD ROAD              | 8/15/2014  |           | <0.150      |
|                                  | 2/21/2013  |           | 0.17J       |
| 80 OLD ORCHARD ROAD              | 7/31/2014  |           | <0.144      |
|                                  | 2/12/2013  |           | <0.20       |
| 100 OLD ORCHARD ROAD             | 7/31/2014  |           | <0.144      |
|                                  | 2/12/2013  |           | <0.20       |
| 130A OLD ORCHARD ROAD            | 5/29/2015  |           | <0.153      |
|                                  | 12/17/2014 |           | <0.142      |
|                                  | 12/18/2013 |           | <0.20       |
|                                  | 2/25/2013  |           | <0.20       |

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| Property              | Date       | Duplicate | 1,4 Dioxane |        |
|-----------------------|------------|-----------|-------------|--------|
| 130B OLD ORCHARD ROAD | 5/29/2015  |           | <0.147      |        |
|                       | 12/17/2014 |           | <0.142      |        |
|                       | 12/18/2013 |           | <0.20       |        |
|                       | 2/25/2013  |           | <0.20       |        |
| 180 OLD ORCHARD ROAD  | 9/18/2014  |           | 0.137J      |        |
|                       | 5/6/2014   |           | 0.527       |        |
|                       | 3/14/2014  |           | 0.0953J     |        |
|                       | 11/20/2013 |           | 0.17J       |        |
|                       | 8/28/2013  |           | 0.46        |        |
|                       | 6/27/2013  |           | 0.45        |        |
|                       | 5/8/2013   |           | 0.52        |        |
| 210 OLD ORCHARD ROAD  | 2/22/2013  |           | 0.045J      |        |
|                       | 12/18/2013 |           | <0.20       |        |
| 290 OLD ORCHARD ROAD  | 2/15/2013  |           | <0.20       |        |
|                       | 3/2/2015   | Effluent  | <0.144      |        |
| 310 OLD ORCHARD ROAD  | 3/2/2015   | Untreated | <0.156      |        |
|                       | 7/23/2014  |           | <0.144      |        |
|                       | 5/16/2013  |           | 0.068J      |        |
|                       | 2/15/2013  |           | <0.20       |        |
| 350 OLD ORCHARD ROAD  | 5/6/2014   |           | 0.431       |        |
|                       | 5/6/2014   | Duplicate | 0.433       |        |
|                       | 4/29/2013  |           | 0.41        |        |
| 370 OLD ORCHARD ROAD  | 8/1/2014   |           | <0.142      |        |
|                       | 5/3/2013   |           | <0.20       |        |
| 390 OLD ORCHARD ROAD  | 5/2/2013   |           | <0.20       |        |
| 400 OLD ORCHARD ROAD  | 5/7/2013   |           | <0.20       |        |
| 50 PIPER LANE         | 5/7/2013   |           | <0.20       |        |
| 65 PIPER LANE         | 2/20/2013  |           | <0.20       |        |
| 1 PRESERVATION WAY    | 7/31/2013  |           | <0.20       |        |
|                       | 8/25/2014  |           | 0.174       |        |
| 4 PRESERVATION WAY    | 8/25/2014  | Duplicate | 0.199       |        |
|                       | 12/2/2013  |           | 0.19J       |        |
|                       | 2/12/2016  |           | 0.209       | 1Q2016 |
|                       | 2/12/2016  | Duplicate | 0.208       | 1Q2016 |
|                       | 11/11/2015 |           | 0.204       |        |
|                       | 11/11/2015 | Duplicate | 0.165       |        |
|                       | 8/12/2015  |           | 0.211       |        |
|                       | 8/12/2015  | Duplicate | 0.222       |        |
|                       | 4/1/2015   |           | 0.183       |        |
|                       | 4/1/2015   | Duplicate | 0.207       |        |
|                       | 10/28/2014 |           | 0.208       |        |
|                       | 7/17/2014  |           | 0.192       |        |
|                       | 7/17/2014  | Duplicate | 0.217       |        |
|                       | 3/25/2014  |           | 0.208       |        |
| 3/25/2014             | Duplicate  | 0.196     |             |        |
| 6 PRESERVATION WAY    | 12/3/2013  |           | 0.18J       |        |
|                       | 4/30/2013  |           | 0.21        |        |
| 8 PRESERVATION WAY    | 12/2/2013  |           | 0.11J       |        |
| 20 REDBERRY LANE      | 12/2/2013  |           | 0.13J       |        |
| 35 REDBERRY LANE      | 7/23/2013  |           | 0.046J      |        |
|                       | 12/2/2013  |           | 0.070J      |        |

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GW-1 Standard and ORSG for 1,4 dioxane is 0.3 ug/L  
Samples collected during this quarter are highlighted in red.

| Property             | Date                    | Duplicate | 1,4 Dioxane |        |
|----------------------|-------------------------|-----------|-------------|--------|
| 45 REDBERRY LANE     | 3/28/2014               |           | 0.105J      |        |
| 55 REDBERRY LANE     | 7/22/2013               |           | 0.047J      |        |
| 49 SALT POND ROAD    | 3/11/2014               |           | 0.177       |        |
|                      | 3/11/2014               | Duplicate | 0.166       |        |
| 25 SCHOOLHOUSE ROAD  | 3/10/2014               |           | <0.150      |        |
| 55 SCHOOLHOUSE ROAD  | 12/4/2013               |           | 0.044J      |        |
| 85 SCHOOLHOUSE ROAD  | 12/5/2013               |           | <0.20       |        |
| 90 SCHOOLHOUSE ROAD  | 6/23/2014               |           | <0.139      |        |
| 180 SCHOOLHOUSE ROAD | 7/23/2013               |           | 0.093J      |        |
| 200 SCHOOLHOUSE ROAD | 2/12/2016               |           | 0.0763J     | 1Q2016 |
|                      | 11/18/2015              |           | <0.142      |        |
|                      | 8/12/2015               |           | 0.0961J     |        |
|                      | 8/12/2015               | Duplicate | 0.106J      |        |
|                      | 5/13/2015               |           | 0.100J      |        |
|                      | 2/13/2015               |           | 0.0892J     |        |
|                      | 11/20/2014              |           | 0.0884J     |        |
|                      | 11/20/2014              | Duplicate | 0.0808J     |        |
|                      | 8/4/2014                |           | 0.0822J     |        |
|                      | PRE (filter) 5/6/2014   |           | 0.105J      |        |
|                      | POST (filter) 2/14/2014 |           | 0.094J      |        |
|                      | PRE (filter) 2/14/2014  |           | 0.083J      |        |
|                      | PRE (filter) 2/14/2014  | Duplicate | 0.076J      |        |
|                      | PRE (filter) 2/11/2014  |           | 0.081J      |        |
|                      | POST (filter) 2/11/2014 |           | 0.096J      |        |
|                      | PRE (filter) 2/11/2014  | Duplicate | 0.086J      |        |
|                      | 2/12/2013               |           | <0.20       |        |
| 210 SCHOOLHOUSE ROAD | 5/6/2013                |           | <0.20       |        |
| 230 SCHOOLHOUSE ROAD | 5/8/2013                |           | <0.20       |        |
| 255 SCHOOLHOUSE ROAD | 7/22/2013               |           | 0.055J      |        |
| 265 SCHOOLHOUSE ROAD | 7/23/2014               |           | 0.0945J     |        |
|                      | 2/21/2013               |           | 0.053J      |        |
| 280 SCHOOLHOUSE ROAD | 2/22/2013               |           | 0.071J      |        |
| 300 SCHOOLHOUSE ROAD | 5/7/2014                |           | 0.168       |        |
|                      | 5/7/2014                | Duplicate | 0.177       |        |
|                      | 2/19/2013               |           | 0.14J       |        |

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 GW-1 Standard and ORSG for 1,4 dioxane is 0.3 ug/L  
Samples collected during this quarter are highlighted in red.

| Property             |            | Date      | Duplicate | 1,4 Dioxane |
|----------------------|------------|-----------|-----------|-------------|
| 325 SCHOOLHOUSE ROAD | Mid System | 9/19/2013 |           | 0.095J      |
|                      | Untreated  | 9/19/2013 |           | 10          |
|                      | Effluent   | 9/19/2013 |           | 0.68        |
|                      | Mid System | 8/27/2013 |           | <0.20       |
|                      | Effluent   | 8/27/2013 |           | <0.20       |
|                      | Untreated  | 8/27/2013 |           | 7.7         |
|                      | Effluent   | 7/31/2013 |           | <0.20       |
|                      | Mid System | 7/31/2013 |           | <0.20       |
|                      | Untreated  | 7/31/2013 |           | 9.4         |
|                      | Untreated  | 7/31/2013 | Duplicate | 8.8         |
|                      | Effluent   | 6/27/2013 |           | <0.20       |
|                      | Mid System | 6/27/2013 |           | 0.041J      |
|                      | Untreated  | 6/27/2013 |           | 8.2         |
|                      | Untreated  | 6/27/2013 | Duplicate | 8.8         |
|                      | Untreated  | 5/29/2013 |           | 7.8         |
|                      | Effluent   | 5/29/2013 |           | <0.20       |
|                      | Mid System | 5/29/2013 |           | <0.20       |
|                      | Untreated  | 5/29/2013 | Duplicate | 9.8B        |
|                      | Mid System | 4/29/2013 |           | <0.20       |
|                      | Effluent   | 4/29/2013 |           | <0.20       |
|                      | Untreated  | 4/29/2013 |           | 9.8         |
|                      | Untreated  | 4/29/2013 | Duplicate | 8.3         |
|                      | Effluent   | 3/21/2013 |           | <0.20       |
|                      | Mid System | 3/21/2013 |           | <0.20       |
|                      | Mid System | 3/14/2013 |           | <0.20       |
|                      | Effluent   | 3/14/2013 |           | <0.20       |
|                      | Effluent   | 3/8/2013  |           | <0.20       |
|                      | Mid System | 3/8/2013  |           | <0.20       |
|                      | Effluent   | 2/25/2013 |           | <0.20       |
|                      | Mid System | 2/25/2013 |           | <0.20       |
| Untreated            | 2/22/2013  |           | 10        |             |
| Untreated            | 2/22/2013  | Duplicate | 9.7       |             |
| 345 SCHOOLHOUSE ROAD |            | 5/7/2014  |           | <0.153      |
|                      |            | 2/12/2013 |           | 0.12J       |
| 350 SCHOOLHOUSE ROAD |            | 8/2/2013  |           | <0.20       |
| 390 SCHOOLHOUSE ROAD |            | 5/7/2013  |           | <0.20       |
| 395 SCHOOLHOUSE ROAD |            | 9/19/2013 |           | <0.20       |
| 400 SCHOOLHOUSE ROAD |            | 5/16/2013 |           | <0.20       |
| 415 SCHOOLHOUSE ROAD |            | 1/23/2015 |           | <0.144      |
|                      |            | 8/5/2014  |           | 0.0895J     |
|                      |            | 2/25/2013 |           | <0.20       |
| 418 SCHOOLHOUSE ROAD |            | 5/2/2013  |           | <0.20       |
| 425 SCHOOLHOUSE ROAD |            | 2/25/2013 |           | <0.20       |
| 455 SCHOOLHOUSE ROAD |            | 5/6/2013  |           | <0.20       |
| 475 SCHOOLHOUSE ROAD |            | 12/6/2013 |           | <0.20       |
| 495 SCHOOLHOUSE ROAD |            | 12/6/2013 |           | <0.20       |
| 555 SCHOOLHOUSE ROAD |            | 5/29/2013 |           | 0.048J      |
| 560 SCHOOLHOUSE ROAD |            | 10/5/2015 |           | <0.142      |
| 590 SCHOOLHOUSE ROAD |            | 5/13/2015 |           | 0.107J      |

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| Property             | Date       | Duplicate | 1,4 Dioxane |
|----------------------|------------|-----------|-------------|
| 600 SCHOOLHOUSE ROAD | 10/28/2014 |           | 0.347       |
|                      | 6/26/2014  |           | 0.226       |
|                      | 6/26/2014  | Duplicate | 0.206       |
| 690 SCHOOLHOUSE ROAD | 3/11/2014  |           | 0.105J      |
| 720 SCHOOLHOUSE ROAD | 10/5/2015  |           | 0.117J      |
| 725 SCHOOLHOUSE ROAD | 2/16/2015  |           | <0.146      |
| 825 SCHOOLHOUSE ROAD | 10/9/2015  |           | <0.153      |
| 835 SCHOOLHOUSE ROAD | 10/6/2015  |           | 0.132J      |
| 875 SCHOOLHOUSE ROAD | 10/5/2015  |           | <0.147      |
| 915 SCHOOLHOUSE ROAD | 10/6/2015  |           | <0.142      |
| 3 SELAH CIRCLE       | 4/30/2013  |           | 0.072J      |
| 4 SELAH CIRCLE       | 5/6/2014   |           | <0.143      |
|                      | 9/18/2013  |           | 0.065J      |
| 3 SHARON CIRCLE      | 7/31/2013  |           | 0.064J      |
| 5 SHARON CIRCLE      | 5/3/2013   |           | <0.20       |
| 10 SHARON CIRCLE     | 5/16/2013  |           | 0.088J      |
| 20 SHARON CIRCLE     | 3/24/2014  |           | 0.104J      |
|                      | 4/30/2013  |           | 0.10J       |
| 25 SHARON CIRCLE     | 9/19/2014  |           | <0.15       |
|                      | 9/19/2013  |           | <0.20       |
| 35 SHARON CIRCLE     | 6/19/2014  |           | 0.143       |
|                      | 6/19/2014  | Duplicate | 0.154       |
|                      | 5/1/2013   |           | 0.34        |
| 20 SPINNAKER WAY     | 11/18/2015 |           | <0.147      |
| 30 SPINNAKER WAY     | 10/6/2015  |           | <0.142      |
| 40 SPINNAKER WAY     | 10/9/2015  |           | <0.147      |
| 60 SPINNAKER WAY     | 10/9/2015  |           | <0.142      |
| 5 STARLIGHT LANE     | 5/5/2014   |           | 0.394       |
|                      | 5/5/2014   | Duplicate | 0.362       |
|                      | 2/21/2013  |           | 0.37        |
|                      | 2/21/2013  | Duplicate | 0.37        |
| 10 STARLIGHT LANE    | 8/4/2014   |           | <0.144      |
|                      | 5/10/2013  |           | <0.20       |
| 13 STARLIGHT LANE    | 8/1/2014   |           | <0.142      |
|                      | 5/10/2013  |           | <0.20       |
| 20 STARLIGHT LANE    | 1/30/2015  |           | 0.164       |
|                      | 1/30/2015  | Duplicate | 0.171       |
|                      | 5/7/2013   |           | <0.20       |
| 30 STARLIGHT LANE    | 6/26/2014  |           | 0.279       |
|                      | 6/26/2014  | Duplicate | 0.302       |
|                      | 3/25/2014  |           | 0.278       |
|                      | 3/25/2014  | Duplicate | 0.249       |
|                      | 12/4/2013  |           | 0.22        |
|                      | 12/4/2013  | Duplicate | 0.17J       |
| 35 STARLIGHT LANE    | 5/3/2013   |           | 0.21        |
|                      | 4/1/2015   |           | 0.315       |
|                      | 12/4/2013  |           | 0.37        |
|                      | 12/4/2013  | Duplicate | 0.30        |
| 40 STARLIGHT LANE    | 2/15/2013  |           | 0.26        |
|                      | 6/26/2014  |           | 0.874       |
|                      | 6/26/2014  | Duplicate | 0.936       |
|                      | 7/23/2013  |           | 0.83        |

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| Property                    | Date       | Duplicate | 1,4 Dioxane |
|-----------------------------|------------|-----------|-------------|
| 45 STARLIGHT LANE           | 3/2/2015   |           | 1.21        |
|                             | 3/2/2015   | Duplicate | 1.29        |
|                             | 2/12/2013  |           | 1.1         |
|                             | 2/12/2013  | Duplicate | 0.93        |
| 50 STARLIGHT LANE           | 3/27/2014  |           | <0.139      |
|                             | 7/31/2013  |           | 0.13J       |
| 3070 STATE HWY              | 12/6/2013  |           | 0.18J       |
| 3100 A STATE HWY            | 10/28/2014 |           | <0.150      |
|                             | 3/13/2014  |           | <0.139      |
| 3168 STATE HWY              | 3/17/2015  |           | 0.398       |
|                             | 5/5/2014   |           | 0.334       |
|                             | 5/5/2014   | Duplicate | 0.350       |
|                             | 12/6/2013  |           | 0.33        |
| 3172 STATE HWY BACKUP WELL  | 12/6/2013  | Duplicate | 0.27        |
|                             | 3/25/2014  |           | 0.335       |
| 3172 STATE HWY PRIMARY WELL | 3/25/2014  | Duplicate | 0.338       |
|                             | 3/17/2015  |           | 0.345       |
| 3200 STATE HWY              | 3/25/2014  |           | 0.326       |
|                             | 3/25/2014  | Duplicate | 0.306       |
|                             | 12/6/2013  |           | 0.20        |
|                             | 12/6/2013  | Duplicate | 0.21        |
| 3265 STATE HWY              | 5/8/2014   |           | 0.424       |
|                             | 5/8/2014   | Duplicate | 0.418       |
|                             | 12/6/2013  |           | 0.31        |
| 3280 STATE HWY              | 12/6/2013  | Duplicate | 0.32        |
|                             | 3/10/2014  |           | <0.147      |
| 3315 STATE HWY              | 4/14/2014  |           | 0.248       |
|                             | 4/14/2014  | Duplicate | 0.198       |
| 3430 STATE HWY              | 3/12/2014  |           | 0.232       |
|                             | 3/12/2014  | Duplicate | 0.194       |
| 3440 STATE HWY              | 12/2/2013  |           | <0.20       |
| 3460 STATE HWY              | 4/11/2014  |           | <0.142      |
| 30 SURREY DRIVE             | 12/6/2013  |           | 0.14J       |
|                             | 4/30/2013  |           | 0.10J       |
| 35 SURREY DRIVE             | 9/17/2013  |           | 0.14J       |
| 50 SURREY DRIVE             | 7/31/2013  |           | 0.070J      |
| 55 SURREY DRIVE             | 4/30/2013  |           | 0.058J      |
| 65 SURREY DRIVE             | 5/1/2013   |           | <0.20       |
| 10 TURTLE POND ROAD         | 7/22/2013  |           | 0.047J      |
| 5 WALTERS WAY               | 5/10/2013  |           | <0.20       |
|                             | 4/11/2014  |           | 0.147       |
| 1 WHIDAH LANE               | 4/11/2014  | Duplicate | <0.144      |
|                             | 7/31/2014  |           | <0.144      |
|                             | 4/29/2013  |           | <0.20       |
| 3 WHIDAH LANE               | 5/5/2014   |           | <0.144      |
|                             | 5/16/2013  |           | 0.071J      |
| 4 WHIDAH LANE               | 7/24/2013  |           | <0.20       |
| 5 WHIDAH LANE               | 7/30/2013  |           | <0.20       |
| 8 WHIDAH LANE               | 9/19/2013  |           | 0.57        |
| 9 WHIDAH LANE               | 7/31/2014  |           | <0.144      |
|                             | 5/7/2013   |           | <0.20       |
| 30 WILD GOOSE LANE          | 6/23/2014  |           | 0.109J      |

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| Property                                   | Date      | Duplicate | 1,4 Dioxane |
|--|-----------|-----------|-------------|
| 35 WILD GOOSE LANE                         | 12/6/2013 |           | 0.081J      |
| 45 WILD GOOSE LANE                         | 12/3/2013 |           | 0.058J      |
| 50 WILD GOOSE LANE                         | 12/4/2013 |           | <0.20       |
| <b>Background Samples</b>                  |           |           |             |
| 5 ACORN ROAD                               | 5/3/2013  |           | 0.042J      |
| 10 BALLWIC ROAD                            | 3/13/2014 |           | <0.139      |
| 215 BAYSIDE DRIVE                          | 6/19/2014 |           | <0.142      |
| 60 BISHOP ROAD                             | 3/11/2014 |           | <0.147      |
| 550 BRACKET ROAD                           | 9/19/2014 |           | 0.119J      |
| 1825 BRIDGE ROAD                           | 3/11/2014 |           | <0.150      |
| 60 BRIGGS FIELD ROAD                       | 5/1/2013  |           | <0.20       |
| 395 CANDLEWOOD DRIVE                       | 5/8/2013  |           | <0.20       |
| CCNS Stevens House 105 Brownell Rd.        | 8/13/2014 |           | <0.147      |
| CCNS Delfino House 880 Cable Rd.           | 8/13/2014 |           | <0.144      |
| CCNS Coast Guard Beach Doane Rd. Rear      | 8/12/2014 |           | <0.144      |
| CCNS Doane Rock Picnic Area Doane Rd.      | 8/12/2014 |           | 0.116J      |
| CCNS Young House 585 Doane Rd. Rear        | 8/13/2014 |           | <0.147      |
| CCNS Humphrey House 25 MacPherson Wy.      | 8/12/2014 |           | <0.144      |
| CCNS Nauset Light Beach Ocean View Dr.     | 8/12/2014 |           | <0.144      |
| CCNS Nauset Ranger Station 1050 Nauset Rd. | 8/12/2014 |           | <0.147      |
| CCNS Sparrow House 600 Nauset Rd.          | 8/12/2014 |           | <0.147      |
| CCNS Withus House 850 Nauset Rd.           | 8/12/2014 |           | <0.147      |
| CCNS Bartett House 40 Ocean View Dr.       | 8/13/2014 |           | <0.15       |
| CCNS Deane House 22 Tomahawk Trail         | 8/13/2014 |           | <0.15       |
| CCNS Lyman House 28 Tomahawk Trail         | 8/13/2014 |           | <0.147      |
| CCNS Benz House 30 Tomahawk Trail          | 8/13/2014 |           | <0.144      |
| 20 CEDAR LANE                              | 5/7/2014  |           | <0.144      |
| 25 CEDAR LANE                              | 5/7/2014  |           | <0.144      |
| 30 CEDAR LANE                              | 3/25/2014 |           | 0.289       |
|  | 3/25/2014 | Duplicate | 0.285       |
| 35 CEDAR LANE                              | 5/7/2014  |           | <0.142      |
| 52 DYER PRINCE ROAD                        | 7/17/2014 |           | <0.144      |
| 235 ELDREDGE DRIVE                         | 7/17/2014 |           | <0.144      |
| 20 GUERRA WAY #42                          | 4/29/2013 |           | <0.20       |
| 20 GUERRA WAY #59                          | 4/29/2013 |           | 0.15J       |
| 65 KETTLE HOLE ROAD                        | 4/26/2013 |           | <0.20       |
| 80 KETTLE HOLE ROAD                        | 5/1/2013  |           | <0.20       |
| 115 KINGSBURY BEACH ROAD                   | 3/12/2014 |           | <0.150      |
| 155 MARY CHASE ROAD                        | 4/14/2014 |           | <0.145      |
| 295 MASSASOIT ROAD                         | 3/10/2014 |           | <0.144      |
| 130 MASSASOIT TRAIL                        | 6/26/2014 |           | 0.156       |
|  | 6/26/2014 | Duplicate | 0.151       |
| 155 MEADOW DRIVE                           | 3/13/2014 |           | <0.139      |
| 1525 NAUSET ROAD                           | 3/10/2014 |           | <0.153      |
| 265 NORTH SUNKEN MEADOW ROAD               | 3/13/2014 |           | <0.139      |
| 40 ROGERS LANE                             | 6/23/2014 |           | <0.139      |
| 190 SAMOSET ROAD                           | 12/6/2013 |           | 0.048J      |
| 1000 SCHOOLHOUSE ROAD                      | 7/23/2014 |           | <0.144      |
| 20 SEASHELL LANE                           | 6/23/2014 |           | <0.139      |
| 10 SPINNAKER WAY                           | 8/25/2014 |           | <0.142      |
| 44 SQUIRREL RUN                            | 7/17/2014 |           | <0.142      |

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TABLE 3  
SUMMARY OF  
EASTHAM LANDFILL MONITORING PLAN REQUIREMENTS

| Monitoring Type           | RES #  | Bottled<br>Water List | Continue<br>LMP<br>Sampling | Frequency     | Time Frame    | VOCs &<br>1,4-<br>Dioxane | Inorganics | Indicators | Methane,<br>VOCs, O2 &<br>H2S |
|---------------------------|--------|-----------------------|-----------------------------|---------------|---------------|---------------------------|------------|------------|-------------------------------|
| <b>Monitoring Wells</b>   |        |                       |                             |               |               |                           |            |            |                               |
| MW-3I/3D                  |        |                       | Yes                         | Quarterly     | Quarterly     | x                         | x          | x          |                               |
| MW-21S                    |        |                       | Yes                         | Semi-Annually | Spring & Fall | x                         |            |            |                               |
| MW-2S, 4S & 5S            |        |                       | Yes                         | Annually      | Fall          | x                         | x          | x          |                               |
| MW-8, DPW Well            |        |                       | Yes                         | Annually      | Fall          | x                         |            |            |                               |
| <b>Landfill Gas Wells</b> |        |                       |                             |               |               |                           |            |            |                               |
| GMW-1, 2, 2A, 2B, 3 & 4   |        |                       | Yes                         | Semi-Annually | Spring & Fall |                           |            |            | x                             |
| <b>Residential Wells</b>  |        |                       |                             |               |               |                           |            |            |                               |
| 265 Alston                | RES-18 | No                    | Yes                         | Annually      | 2nd Quarter   | x                         | x          |            |                               |
| 280 Alston                | RES-16 | No                    | Yes                         | Annually      | 2nd Quarter   | x                         | x          |            |                               |
| 125 Meetinghouse          | RES-7  | No                    | Yes                         | Annually      | 2nd Quarter   | x                         | x          |            |                               |
| 170 Meetinghouse          | RES-33 | No                    | Yes                         | Annually      | 2nd Quarter   | x                         |            |            |                               |
| 75 Old Orchard            | RES-13 | No                    | Yes                         | Annually      | 2nd Quarter   | x                         | x          |            |                               |
| 130 Old Orchard           | RES-9  | No                    | Yes                         | Annually      | 2nd Quarter   | x                         | x          |            |                               |
| 210 Old Orchard           | RES-3  | No                    | Yes                         | Annually      | 2nd Quarter   | x                         | x          |            |                               |
| 290 Old Orchard           | RES-2  | No                    | Yes                         | Annually      | 2nd Quarter   | x                         | x          |            |                               |

1st Quarter: December - February (winter)  
2nd Quarter: March - May (spring)  
3rd Quarter: June - August (summer)  
4th Quarter : September - November

**TABLE 4.1**  
**SECTION 1**  
**SUMMARY OF LANDFILL MONITORING PLAN**  
**GROUNDWATER ANALYTICAL RESULTS**  
**Volatile Organic Compounds**  
**Eastham Landfill Monitoring Wells and Private Drinking Wells**  
**Eastham, MA**  
**(All results in ug/l)**

| Property         | LMP Sample Frequency | Date       | 1,4-Dioxane | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,1-Dichloropropene |
|------------------|----------------------|------------|-------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------|--------------------|---------------------|
| <b>Standards</b> |                      |            |             |                           |                       |                           |                       |                    |                    |                     |
| GW1              |                      |            | 0.3         | 5                         | 200                   | 2                         | 5                     | 70                 | 7                  | NA                  |
| GW3              |                      |            | 50000       | 50000                     | 20000                 | 50000                     | 50000                 | 20000              | 30000              | NA                  |
| MMCL             |                      |            | NA          | NA                        | 200                   | NA                        | 5                     | NA                 | 7                  | NA                  |
| ORSG             |                      |            | 0.3         | NA                        | NA                    | NA                        | NA                    | 70                 | NA                 | NA                  |
| <b>Results</b>   |                      |            |             |                           |                       |                           |                       |                    |                    |                     |
| MW 10            |                      | 10/27/2014 | 0.186       | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
| MW 21D           |                      | 10/27/2014 | 0.215       | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                  |                      | 2/25/2013  | <50         | <1.0                      | <1.0                  | <0.50                     | <1.0                  | <1.0               | <1.0               | <1.0                |
| MW 21S           | Semi-Annual          | 5/13/2015  | 3.19        | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|                  |                      | 10/27/2014 | 2.93        | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                  |                      | 5/16/2013  | <50         | <1.0                      | <1.0                  | <0.50                     | <1.0                  | <1.0               | <1.0               | <1.0                |
|                  |                      | 12/7/2012  | <2.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
| MW 2D            |                      | 2/14/2013  | 0.14 J      | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                  |                      | 12/6/2012  | <2.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
| MW 2S            | Annual               | 11/24/2015 | 0.633       | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|                  |                      | 12/16/2014 | 0.337       | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|                  |                      | 12/18/2013 | <2.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
|                  |                      | 2/14/2013  | 0.47        | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                  |                      | 12/6/2012  | <2.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
|                  |                      | 7/10/2012  | <500        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
| MW 3D            | Quarterly            | 2/23/2016  | 7.23        | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|                  |                      | 11/24/2015 | 8.65        | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|                  |                      | 8/26/2015  | 8.94        | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|                  |                      | 5/13/2015  | 11          | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|                  |                      | 11/10/2014 | <2.5        | <5.0                      | <5.0                  | <5.0                      | <5.0                  | <5.0               | <5.0               | <5.0                |
|                  |                      | 11/10/2014 | Duplicate   | <2.5                      | <5.0                  | <5.0                      | <5.0                  | <5.0               | <5.0               | <5.0                |
|                  |                      | 10/27/2014 | 12.8        | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                  |                      | 9/3/2014   | <500        | <5.0                      | <5.0                  | <5.0                      | <5.0                  | <5.0               | <5.0               | <5.0                |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
ORSG-Office of Research and Standards Guideline  
NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* Residential samples will be tested for all VOCs during 2nd quarter of the year.



| Property  | LMP Sample Frequency | Date       | 1,4-Dioxane | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,1-Dichloropropene |
|-----------|----------------------|------------|-------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------|--------------------|---------------------|
| MW 3D     | Quarterly            | 5/19/2014  | 13          | <1.0                      | <1.0                  | <0.50                     | <1.0                  | <1.0               | <1.0               | <1.0                |
|           |                      | 2/27/2014  | 12          | <1.0                      | <1.0                  | <0.50                     | <1.0                  | <1.0               | <1.0               | <1.0                |
|           |                      | 11/25/2013 | 16          | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
|           |                      | 9/5/2013   | <500        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
|           |                      | 5/8/2013   | 17          | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
|           |                      | 2/14/2013  | <500        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
|           |                      | 12/6/2012  | <2.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
|           |                      | 10/9/2012  | 18          | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
|           |                      | 7/10/2012  | <500        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
|           |                      | 3/20/2012  | <500        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
| MW 3I     | Quarterly            | 2/23/2016  | <0.147      | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|           |                      | 11/24/2015 | <0.147      | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|           |                      | 8/26/2015  | <0.147      | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|           |                      | 5/13/2015  | <0.147      | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|           |                      | 12/16/2014 | <0.142      | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|           |                      | 11/10/2014 | <2.5        | <5.0                      | <5.0                  | <5.0                      | <5.0                  | <5.0               | <5.0               | <5.0                |
|           |                      | 9/3/2014   | <500        | <5.0                      | <5.0                  | <5.0                      | <5.0                  | <5.0               | <5.0               | <5.0                |
|           |                      | 5/19/2014  | <1.0        | <1.0                      | <1.0                  | <0.50                     | <1.0                  | <1.0               | <1.0               | <1.0                |
|           |                      | 2/27/2014  | <1.0        | <1.0                      | <1.0                  | <0.50                     | <1.0                  | <1.0               | <1.0               | <1.0                |
|           |                      | 11/25/2013 | <2.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
|           |                      | 9/5/2013   | <500        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
|           |                      | 5/8/2013   | <2.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
|           |                      | 2/14/2013  | <500        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
|           |                      | 2/14/2013  | <0.20       | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|           |                      | 12/6/2012  | <2.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
|           |                      | 10/9/2012  | <2.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
| 7/10/2012 | <500                 | <0.5       | <0.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               |                    |                     |
| 3/20/2012 | <500                 | <0.5       | <0.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               |                    |                     |
| MW 3S     |                      | 2/14/2013  | <0.20       | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|           |                      | 12/6/2012  | <2.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
| MW 4D     |                      | 10/27/2014 | <0.150      | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|           |                      | 2/14/2013  | <0.20       | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|           |                      | 12/6/2012  | <2.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
| MW 4S     | Annual               | 11/24/2015 | 0.842       | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|           |                      | 12/16/2014 | <250        | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|           |                      | 10/27/2014 | 0.652       | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|           |                      | 12/18/2013 | <2.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
|           |                      | 2/14/2013  | 1.5         | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|           |                      | 12/6/2012  | <2.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
|           |                      | 7/10/2012  | <500        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
| MW 5D     |                      | 10/27/2014 | <0.153      | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 |                     |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
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NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* Residential samples will be tested for all VOCs during 2nd quarter of the year.



| Property              | LMP Sample Frequency | Date       | 1,4-Dioxane | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,1-Dichloropropene |
|-----------------------|----------------------|------------|-------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------|--------------------|---------------------|
| MW 5D                 |                      | 2/14/2013  | <0.20       | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                       |                      | 12/5/2012  | <2.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
| MW 5S                 | Annual               | 11/24/2015 | 1.39        | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|                       |                      | 12/16/2014 | <250        | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|                       |                      | 10/27/2014 | 1.65        | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                       |                      | 12/18/2013 | <2.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
|                       |                      | 2/14/2013  | 1.2         | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                       |                      | 12/5/2012  | <2.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
|                       |                      | 7/10/2012  | <500        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
| MW 7                  |                      | 10/27/2014 | <0.150      | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 |                     |
| MW 8                  | Annual               | 11/24/2015 | 0.238       | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|                       |                      | 12/16/2014 | 0.283       | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|                       |                      | 12/18/2013 | <2.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
|                       |                      | 3/14/2013  | 0.33        | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                       |                      | 12/7/2012  | <2.5        | <0.5                      | <0.5                  | <0.5                      | <0.5                  | <0.5               | <0.5               | <0.5                |
| MW 21S                | Semi-Annual          | 11/10/2015 | 0.202       | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
| DPW WELL              | Annual               | 11/24/2015 | <0.144      | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|                       |                      | 12/16/2014 | 0.0793J     | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
| 265 ALSTON AVENUE     | Annual               | 4/1/2015   | <0.148      | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|                       |                      | 3/28/2014  | <0.139      | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                       |                      | 12/18/2013 | <0.20       | <0.50                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
|                       |                      | 3/14/2013  | 0.055J      | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                       |                      | 12/6/2012  | <2.5        | <0.50                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
|                       |                      | 6/21/2012  | NS          | <0.50                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
| 280 ALSTON AVENUE     | Annual               | 5/13/2015  | <0.156      | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|                       |                      | 12/17/2014 | <0.142      | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                       |                      | 12/18/2013 | <0.20       | <0.50                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
|                       |                      | 2/22/2013  | <0.20       | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                       |                      | 12/6/2012  | <2.5        | <0.50                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
|                       |                      | 6/21/2012  | NS          | <0.50                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
| 125 MEETINGHOUSE ROAD | Annual               | 5/8/2013   | 0.15J       | <0.50                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
|                       |                      | 6/21/2012  | NS          | <0.50                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
| 170 MEETINGHOUSE ROAD | Annual               | 5/13/2015  | <0.144      | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|                       |                      | 8/15/2014  | <0.144      | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                       |                      | 2/15/2013  | <0.20       | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                       |                      | 12/8/2012  | <2.5        | <0.50                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
| 75 OLD ORCHARD ROAD   | Annual               | 8/15/2014  | <0.150      | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                       |                      | 2/21/2013  | 0.17J       | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                       |                      | 12/6/2012  | <2.5        | <0.50                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
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NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* Residential samples will be tested for all VOCs during 2nd quarter of the year.



| Property              | LMP Sample Frequency | Date       | 1,4-Dioxane | 1,1,1,2-Tetrachloroethane | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,1-Dichloropropene |
|-----------------------|----------------------|------------|-------------|---------------------------|-----------------------|---------------------------|-----------------------|--------------------|--------------------|---------------------|
| 75 OLD ORCHARD ROAD   | Annual               | 6/21/2012  | NS          | <0.50                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
| 130 OLD ORCHARD ROAD  | Annual               | 12/6/2012  | <2.5        | <0.50                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
|                       |                      | 6/21/2012  | NS          | <0.50                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
| 130A OLD ORCHARD ROAD | Annual               | 5/29/2015  | <0.153      | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|                       |                      | 12/17/2014 | <0.142      | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                       |                      | 12/18/2013 | <0.20       | <0.50                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
|                       |                      | 2/25/2013  | <0.20       | <0.50                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
| 130B OLD ORCHARD ROAD | Annual               | 5/29/2015  | <0.147      | <1.0                      | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|                       |                      | 12/17/2014 | <0.142      | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                       |                      | 12/18/2013 | <0.20       | <0.50                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
|                       |                      | 2/25/2013  | <0.20       | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
| 210 OLD ORCHARD ROAD  | Annual               | 12/18/2013 | <0.20       | <0.50                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
|                       |                      | 2/15/2013  | <0.20       | NS                        | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                       |                      | 12/6/2012  | <2.5        | <0.50                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
|                       |                      | 6/21/2012  | NS          | <0.50                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
| 290 OLD ORCHARD ROAD  | Annual               | 3/2/2015   | Inf.        | <0.156                    | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|                       |                      | 3/2/2015   | Eff.        | <0.144                    | <1.0                  | <1.0                      | <1.0                  | <1.0               | <1.0               | <2.0                |
|                       |                      | 7/23/2014  |             | <0.144                    | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                       |                      | 5/16/2013  |             | 0.068J                    | NS                    | NS                        | NS                    | NS                 | NS                 | NS                  |
|                       |                      | 5/9/2013   |             | NS                        | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
|                       |                      | 2/15/2013  |             | <0.20                     | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |
|                       |                      | 6/21/2012  |             | NS                        | <0.50                 | <0.50                     | <0.50                 | <0.50              | <0.50              | <0.50               |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
ORSG-Office of Research and Standards Guideline  
NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* Residential samples will be tested for all VOCs during 2nd quarter of the year.

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Report: GW VOC 1  
Datebase: Eastham Landfill Monitoring



**TABLE 4.1**  
**SECTION 2**  
**SUMMARY OF LANDFILL MONITORING PLAN**  
**GROUNDWATER ANALYTICAL RESULTS**  
**Volatile Organic Compounds**  
**Eastham Landfill Monitoring Wells and Private Drinking Wells**  
**Eastham, MA**  
**(All results in ug/l)**

| Property         | LMP Sample Frequency | Date       | EDB       | 1,2,3-Trichlorobenzene | 1,2,3-Trichloropropane | 1,2,4-Trichlorobenzene | 1,2,4-Trimethylbenzene | 1,2-Dibromo-3-Chloropropane | 1,2-Dichlorobenzene | 1,2-Dichloroethane | 1,2-Dichloropropane |
|------------------|----------------------|------------|-----------|------------------------|------------------------|------------------------|------------------------|-----------------------------|---------------------|--------------------|---------------------|
| <b>Standards</b> |                      |            |           |                        |                        |                        |                        |                             |                     |                    |                     |
| GW1              |                      |            | 0.02      | NA                     | NA                     | 70                     | NA                     | NA                          | 600                 | 5                  | 5                   |
| GW3              |                      |            | 50000     | NA                     | NA                     | 50000                  | NA                     | NA                          | 2000                | 20000              | 50000               |
| MMCL             |                      |            | 0.02      | NA                     | NA                     | 70                     | NA                     | 0.2                         | 600                 | 5                  | 5                   |
| ORSG             |                      |            | NA        | NA                     | NA                     | NA                     | NA                     | NA                          | NA                  | NA                 | NA                  |
| <b>Results</b>   |                      |            |           |                        |                        |                        |                        |                             |                     |                    |                     |
| MW 10            |                      | 10/27/2014 | NS        | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
| MW 21D           |                      | 10/27/2014 | NS        | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                  |                      | 2/25/2013  |           | <1.0                   | <1.0                   | <1.0                   | <1.0                   | <5.0                        | <1.0                | <1.0               | <1.0                |
| MW 21S           | Semi-Annual          | 5/13/2015  | <2.0      | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|                  |                      | 10/27/2014 | NS        | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                  |                      | 5/16/2013  |           | <1.0                   | <1.0                   | <1.0                   | <1.0                   | <5.0                        | <1.0                | <1.0               | <1.0                |
|                  |                      | 12/7/2012  | <0.5      | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
| MW 2D            |                      | 2/14/2013  | NS        | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                  |                      | 12/6/2012  | <0.5      | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
| MW 2S            | Annual               | 11/24/2015 | <2.0      | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|                  |                      | 12/16/2014 | <2.0      | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|                  |                      | 12/18/2013 | <0.5      | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
|                  |                      | 2/14/2013  | NS        | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                  |                      | 12/6/2012  | <0.5      | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
|                  |                      | 7/10/2012  | <0.5      | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
| MW 3D            | Quarterly            | 2/23/2016  | <2.0      | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|                  |                      | 11/24/2015 | <2.0      | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|                  |                      | 8/26/2015  | <2.0      | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|                  |                      | 5/13/2015  | <2.0      | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|                  |                      | 11/10/2014 | <5.0      | <5.0                   | <5.0                   | <5.0                   | <5.0                   | <5.0                        | <5.0                | <5.0               | <5.0                |
|                  |                      | 11/10/2014 | Duplicate | <5.0                   | <5.0                   | <5.0                   | <5.0                   | <5.0                        | <5.0                | <5.0               | <5.0                |

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MMCL-Massachusetts Max. Contaminant Level  
ORSG-Office of Research and Standards Guideline  
NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* Residential samples will be tested for all VOCs during 2nd quarter of the year.



| Property  | LMP Sample Frequency | Date       | EDB   | 1,2,3-Trichlorobenzene | 1,2,3-Trichloropropane | 1,2,4-Trichlorobenzene | 1,2,4-Trimethylbenzene | 1,2-Dibromo-3-Chloropropane | 1,2-Dichlorobenzene | 1,2-Dichloroethane | 1,2-Dichloropropane |
|-----------|----------------------|------------|-------|------------------------|------------------------|------------------------|------------------------|-----------------------------|---------------------|--------------------|---------------------|
| MW 3D     | Quarterly            | 10/27/2014 | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|           |                      | 9/3/2014   | <5.0  | <5.0                   | <5.0                   | <5.0                   | <5.0                   | <5.0                        | <5.0                | <5.0               | <5.0                |
|           |                      | 5/19/2014  | <0.50 | <1.0                   | <1.0                   | <1.0                   | <1.0                   | <0.50                       | <1.0                | <1.0               | <1.0                |
|           |                      | 2/27/2014  | <0.50 | <1.0                   | <1.0                   | <1.0                   | <1.0                   | <0.50                       | <1.0                | <1.0               | <1.0                |
|           |                      | 11/25/2013 | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
|           |                      | 9/5/2013   | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
|           |                      | 5/8/2013   | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
|           |                      | 2/14/2013  | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
|           |                      | 12/6/2012  | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
|           |                      | 10/9/2012  | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
|           |                      | 7/10/2012  | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
|           |                      | 3/20/2012  | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
| MW 3I     | Quarterly            | 2/23/2016  | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|           |                      | 11/24/2015 | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|           |                      | 8/26/2015  | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|           |                      | 5/13/2015  | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|           |                      | 12/16/2014 | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|           |                      | 11/10/2014 | <5.0  | <5.0                   | <5.0                   | <5.0                   | <5.0                   | <5.0                        | <5.0                | <5.0               | <5.0                |
|           |                      | 9/3/2014   | <5.0  | <5.0                   | <5.0                   | <5.0                   | <5.0                   | <5.0                        | <5.0                | <5.0               | <5.0                |
|           |                      | 5/19/2014  | <0.50 | <1.0                   | <1.0                   | <1.0                   | <1.0                   | <0.50                       | <1.0                | <1.0               | <1.0                |
|           |                      | 2/27/2014  | <0.50 | <1.0                   | <1.0                   | <1.0                   | <1.0                   | <0.50                       | <1.0                | <1.0               | <1.0                |
|           |                      | 11/25/2013 | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
|           |                      | 9/5/2013   | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
|           |                      | 5/8/2013   | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
|           |                      | 2/14/2013  | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
|           |                      | 2/14/2013  | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|           |                      | 12/6/2012  | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
|           |                      | 10/9/2012  | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
| 7/10/2012 | <0.5                 | <0.5       | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                |                    |                     |
| 3/20/2012 | <0.5                 | <0.5       | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                |                    |                     |
| MW 3S     |                      | 2/14/2013  | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|           |                      | 12/6/2012  | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
| MW 4D     |                      | 10/27/2014 | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|           |                      | 2/14/2013  | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|           |                      | 12/6/2012  | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
| MW 4S     | Annual               | 11/24/2015 | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|           |                      | 12/16/2014 | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|           |                      | 10/27/2014 | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
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\* Residential samples will be tested for all VOCs during 2nd quarter of the year.



| Property          | LMP Sample Frequency | Date       | EDB   | 1,2,3-Trichlorobenzene | 1,2,3-Trichloropropane | 1,2,4-Trichlorobenzene | 1,2,4-Trimethylbenzene | 1,2-Dibromo-3-Chloropropane | 1,2-Dichlorobenzene | 1,2-Dichloroethane | 1,2-Dichloropropane |
|-------------------|----------------------|------------|-------|------------------------|------------------------|------------------------|------------------------|-----------------------------|---------------------|--------------------|---------------------|
| MW 4S             | Annual               | 12/18/2013 | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
|                   |                      | 2/14/2013  | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                   |                      | 12/6/2012  | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
|                   |                      | 7/10/2012  | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
| MW 5D             | Annual               | 10/27/2014 | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                   |                      | 2/14/2013  | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                   |                      | 12/5/2012  | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
| MW 5S             | Annual               | 11/24/2015 | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|                   |                      | 12/16/2014 | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|                   |                      | 10/27/2014 | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                   |                      | 12/18/2013 | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
|                   |                      | 2/14/2013  | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                   |                      | 12/5/2012  | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
|                   |                      | 7/10/2012  | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
| MW 7              | Annual               | 10/27/2014 | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 |                     |
| MW 8              | Annual               | 11/24/2015 | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|                   |                      | 12/16/2014 | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|                   |                      | 12/18/2013 | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
|                   |                      | 3/14/2013  | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                   |                      | 12/7/2012  | <0.5  | <0.5                   | <0.5                   | <0.5                   | <0.5                   | <0.5                        | <0.5                | <0.5               | <0.5                |
| MW 21S            | Semi-Annual          | 11/10/2015 | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
| DPW WELL          | Annual               | 11/24/2015 | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|                   |                      | 12/16/2014 | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
| 265 ALSTON AVENUE | Annual               | 4/1/2015   | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|                   |                      | 3/28/2014  | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                   |                      | 12/18/2013 | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              | <0.50               |
|                   |                      | 3/14/2013  | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                   |                      | 12/6/2012  | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              | <0.50               |
| 280 ALSTON AVENUE | Annual               | 6/21/2012  | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              | <0.50               |
|                   |                      | 5/13/2015  | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|                   |                      | 12/17/2014 | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                   |                      | 12/18/2013 | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              | <0.50               |
|                   |                      | 2/22/2013  | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
| 125 MEETINGHOUSE  | Annual               | 12/6/2012  | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              | <0.50               |
|                   |                      | 6/21/2012  | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              | <0.50               |
|                   |                      | 5/8/2013   | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              | <0.50               |
|                   |                      | 6/21/2012  | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              |                     |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
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NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* Residential samples will be tested for all VOCs during 2nd quarter of the year.



| Property         | LMP Sample Frequency | Date                     | EDB   | 1,2,3-Trichlorobenzene | 1,2,3-Trichloropropane | 1,2,4-Trichlorobenzene | 1,2,4-Trimethylbenzene | 1,2-Dibromo-3-Chloropropane | 1,2-Dichlorobenzene | 1,2-Dichloroethane | 1,2-Dichloropropane |
|------------------|----------------------|--------------------------|-------|------------------------|------------------------|------------------------|------------------------|-----------------------------|---------------------|--------------------|---------------------|
| 170 MEETINGHOUSE | Annual               | 5/13/2015                | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|                  |                      | 8/15/2014                | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                  |                      | 2/15/2013                | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                  |                      | 12/8/2012                | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              | <0.50               |
| 75 OLD ORCHARD   | Annual               | 8/15/2014                | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                  |                      | 2/21/2013                | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                  |                      | 12/6/2012                | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              | <0.50               |
|                  |                      | 6/21/2012                | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              | <0.50               |
| 130 OLD ORCHARD  | Annual               | 12/6/2012                | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              | <0.50               |
|                  |                      | 6/21/2012                | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              | <0.50               |
| 130A OLD ORCHARD | Annual               | 5/29/2015                | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|                  |                      | 12/17/2014               | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                  |                      | 12/18/2013               | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              | <0.50               |
| 130B OLD ORCHARD | Annual               | 2/25/2013                | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              | <0.50               |
|                  |                      | 5/29/2015                | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|                  |                      | 12/17/2014               | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
| 210 OLD ORCHARD  | Annual               | 12/18/2013               | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              | <0.50               |
|                  |                      | 2/15/2013                | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                  |                      | 12/6/2012                | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              | <0.50               |
| 290 OLD ORCHARD  | Annual               | 6/21/2012                | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              | <0.50               |
|                  |                      | 3/2/2015 <sup>Inf.</sup> | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|                  |                      | 3/2/2015 <sup>Eff.</sup> | <2.0  | <2.0                   | <2.0                   | <2.0                   | <2.0                   | <2.0                        | <1.0                | <1.0               | <1.0                |
|                  |                      | 7/23/2014                | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                  |                      | 5/16/2013                | NS    | NS                     | NS                     | NS                     | NS                     | NS                          | NS                  | NS                 | NS                  |
|                  |                      | 5/9/2013                 | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              | <0.50               |
| 2/15/2013        | <0.50                | <0.50                    | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               |                    |                     |
| 6/21/2012        | <0.50                | <0.50                    | <0.50 | <0.50                  | <0.50                  | <0.50                  | <0.50                  | <0.50                       | <0.50               | <0.50              |                     |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
ORSG-Office of Research and Standards Guideline  
NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* Residential samples will be tested for all VOCs during 2nd quarter of the year.

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Report: GW VOC 2  
Datebase: Eastham Landfill Monitoring



**TABLE 4.1**  
**SECTION 3**  
**SUMMARY OF LANDFILL MONITORNG PLAN**  
**GROUNDWATER ANALYTICAL RESULTS**  
**Volatile Organic Compounds**  
**Eastham Landfill Monitoring Wells and Private Drinking Wells**  
**Eastham, MA**  
**(All results in ug/l)**

| Property         | LMP Sample Frequency | Date       | 1,3,5-Trimethylbenzene | 1,3-Dichlorobenzene | 1,3-Dichloropropane | 1,4-Dichlorobenzene | 2,2-Dichloropropane | 2-Butanone (MEK) | 2-Chlorotoluene | 2-Hexanone | 4-Chlorotoluene |
|------------------|----------------------|------------|------------------------|---------------------|---------------------|---------------------|---------------------|------------------|-----------------|------------|-----------------|
| <b>Standards</b> |                      |            |                        |                     |                     |                     |                     |                  |                 |            |                 |
| GW1              |                      |            | NA                     | 100                 | NA                  | 5                   | NA                  | 4000             | NA              | NA         | NA              |
| GW3              |                      |            | NA                     | 50000               | NA                  | 8000                | NA                  | 50000            | NA              | NA         | NA              |
| MMCL             |                      |            | NA                     | NA                  | NA                  | 5                   | NA                  | NA               | NA              | NA         | NA              |
| ORSG             |                      |            | NA                     | NA                  | NA                  | NA                  | NA                  | 4000             | NA              | NA         | NA              |
| <b>Results</b>   |                      |            |                        |                     |                     |                     |                     |                  |                 |            |                 |
| MW 10            |                      | 10/27/2014 | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |
| MW 21D           |                      | 10/27/2014 | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |
|                  |                      | 2/25/2013  | <1.0                   | <1.0                | <1.0                | <1.0                | <1.0                | 2.1J *           | <1.0            | <10        | <1.0            |
| MW 21S           | Semi-Annual          | 5/13/2015  | <2.0                   | <1.0                | <2.0                | <1.0                | <2.0                |                  | <2.0            | <5.0       | <2.0            |
|                  |                      | 10/27/2014 | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |
|                  |                      | 5/16/2013  | <1.0                   | <1.0                | <1.0                | <1.0                | <1.0                | <10              | <1.0            | <10        | <1.0            |
|                  |                      | 12/7/2012  | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | NS               | <0.5            | NS         | <0.5            |
| MW 2D            |                      | 2/14/2013  | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |
|                  |                      | 12/6/2012  | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <5.0             | <0.5            | <5.0       | <0.5            |
| MW 2S            | Annual               | 11/24/2015 | <2.0                   | <1.0                | <2.0                | <1.0                | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |
|                  |                      | 12/16/2014 | <2.0                   | <1.0                | <2.0                | <1.0                | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |
|                  |                      | 12/18/2013 | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <5.0             | <0.5            | <5.0       | <0.5            |
|                  |                      | 2/14/2013  | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |
|                  |                      | 12/6/2012  | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <5.0             | <0.5            | <5.0       | <0.5            |
|                  |                      | 7/10/2012  | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <5.0             | <0.5            | <5.0       | <0.5            |
| MW 3D            | Quarterly            | 2/23/2016  | <2.0                   | <1.0                | <2.0                | 0.28J               | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |
|                  |                      | 11/24/2015 | <2.0                   | <1.0                | <2.0                | 0.30J               | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |
|                  |                      | 8/26/2015  | <2.0                   | <1.0                | <2.0                | 0.28 J              | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |
|                  |                      | 5/13/2015  | <2.0                   | <1.0                | <2.0                | 0.33J               | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |
|                  |                      | 11/10/2014 | <5.0                   | <5.0                | <5.0                | <5.0                | <5.0                | <5.0             | <5.0            | <5.0       | <5.0            |
|                  |                      | 11/10/2014 | Duplicate              | <5.0                | <5.0                | <5.0                | <5.0                | <5.0             | <5.0            | <5.0       | <5.0            |
|                  |                      | 10/27/2014 | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
ORSG-Office of Research and Standards Guideline  
NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* Residential samples will be tested for all VOCs during 2nd quarter of the year.



| Property   | LMP Sample Frequency | Date       | 1,3,5-Trimethylbenzene | 1,3-Dichlorobenzene | 1,3-Dichloropropane | 1,4-Dichlorobenzene | 2,2-Dichloropropane | 2-Butanone (MEK) | 2-Chlorotoluene | 2-Hexanone | 4-Chlorotoluene |      |      |
|------------|----------------------|------------|------------------------|---------------------|---------------------|---------------------|---------------------|------------------|-----------------|------------|-----------------|------|------|
| MW 3D      | Quarterly            | 9/3/2014   | <5.0                   | <5.0                | <5.0                | <5.0                | <5.0                | <5.0             | <5.0            | <5.0       | <5.0            |      |      |
|            |                      | 5/19/2014  | <1.0                   | <1.0                | <1.0                | <1.0                | <1.0                | <1.0             | <1.0            | <0.50      | <1.0            |      |      |
|            |                      | 2/27/2014  | <1.0                   | <1.0                | <1.0                | <1.0                | <1.0                | <1.0             | <1.0            | <0.50      | <1.0            |      |      |
|            |                      | 11/25/2013 | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <0.5             | <0.5            | <0.5       | <0.5            |      |      |
|            |                      | 9/5/2013   | <0.5                   | <0.5                | <0.5                | 0.50                | <0.5                | <0.5             | <0.5            | <0.5       | <0.5            |      |      |
|            |                      | 5/8/2013   | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <0.5             | <0.5            | <0.5       | <0.5            |      |      |
|            |                      | 2/14/2013  | <0.5                   | <0.5                | <0.5                | 0.51                | <0.5                | <0.5             | <0.5            | <0.5       | <0.5            |      |      |
|            |                      | 12/6/2012  | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <0.5             | <0.5            | <0.5       | <0.5            |      |      |
|            |                      | 10/9/2012  | <0.5                   | <0.5                | <0.5                | 0.55                | <0.5                | <0.5             | <0.5            | <0.5       | <0.5            |      |      |
|            |                      | 7/10/2012  | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <0.5             | <0.5            | <0.5       | <0.5            |      |      |
|            |                      | 3/20/2012  | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <0.5             | <0.5            | <0.5       | <0.5            |      |      |
|            |                      | MW 3I      | Quarterly              | 2/23/2016           | <2.0                | <1.0                | <2.0                | <1.0             | <2.0            | <5.0       | <2.0            | <5.0 | <2.0 |
|            |                      |            |                        | 11/24/2015          | <2.0                | <1.0                | <2.0                | <1.0             | <2.0            | <5.0       | <2.0            | <5.0 | <2.0 |
| 8/26/2015  | <2.0                 |            |                        | <1.0                | <2.0                | <1.0                | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |      |      |
| 5/13/2015  | <2.0                 |            |                        | <1.0                | <2.0                | <1.0                | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |      |      |
| 12/16/2014 | NS                   |            |                        | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |      |      |
| 11/10/2014 | <5.0                 |            |                        | <5.0                | <5.0                | <5.0                | <5.0                | <5.0             | <5.0            | <5.0       | <5.0            |      |      |
| 9/3/2014   | <5.0                 |            |                        | <5.0                | <5.0                | <5.0                | <5.0                | <5.0             | <5.0            | <5.0       | <5.0            |      |      |
| 5/19/2014  | <1.0                 |            |                        | <1.0                | <1.0                | <1.0                | <1.0                | <1.0             | <1.0            | <0.50      | <1.0            |      |      |
| 2/27/2014  | <1.0                 |            |                        | <1.0                | <1.0                | <1.0                | <1.0                | <1.0             | <1.0            | <0.50      | <1.0            |      |      |
| 11/25/2013 | <0.5                 |            |                        | <0.5                | <0.5                | <0.5                | <0.5                | <0.5             | <0.5            | <0.5       | <0.5            |      |      |
| 9/5/2013   | <0.5                 |            |                        | <0.5                | <0.5                | <0.5                | <0.5                | <0.5             | <0.5            | <0.5       | <0.5            |      |      |
| 5/8/2013   | <0.5                 |            |                        | <0.5                | <0.5                | <0.5                | <0.5                | <0.5             | <0.5            | <0.5       | <0.5            |      |      |
| 2/14/2013  | <0.5                 |            |                        | <0.5                | <0.5                | <0.5                | <0.5                | <0.5             | <0.5            | <0.5       | <0.5            |      |      |
| 2/14/2013  | NS                   |            |                        | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |      |      |
| 12/6/2012  | <0.5                 |            |                        | <0.5                | <0.5                | <0.5                | <0.5                | <0.5             | <0.5            | <0.5       | <0.5            |      |      |
| 10/9/2012  | <0.5                 |            |                        | <0.5                | <0.5                | <0.5                | <0.5                | <0.5             | <0.5            | <0.5       | <0.5            |      |      |
| 7/10/2012  | <0.5                 | <0.5       | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <0.5             | <0.5            |            |                 |      |      |
| 3/20/2012  | <0.5                 | <0.5       | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <0.5             | <0.5            |            |                 |      |      |
| MW 3S      |                      | 2/14/2013  | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |      |      |
|            |                      | 12/6/2012  | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <0.5             | <0.5            | <0.5       | <0.5            |      |      |
| MW 4D      |                      | 10/27/2014 | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |      |      |
|            |                      | 2/14/2013  | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |      |      |
|            |                      | 12/6/2012  | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <0.5             | <0.5            | <0.5       | <0.5            |      |      |
| MW 4S      | Annual               | 11/24/2015 | <2.0                   | <1.0                | <2.0                | <1.0                | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |      |      |
|            |                      | 12/16/2014 | <2.0                   | <1.0                | <2.0                | <1.0                | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |      |      |
|            |                      | 10/27/2014 | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |      |      |
|            |                      | 12/18/2013 | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <0.5             | <0.5            | <0.5       | <0.5            |      |      |
|            |                      | 2/14/2013  | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |      |      |
|            |                      | 12/6/2012  | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <0.5             | <0.5            | <0.5       | <0.5            |      |      |
| 7/10/2012  | <0.5                 | <0.5       | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <0.5             | <0.5            |            |                 |      |      |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
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NS - Not Sampled  
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| Property              | LMP Sample Frequency | Date       | 1,3,5-Trimethylbenzene | 1,3-Dichlorobenzene | 1,3-Dichloropropane | 1,4-Dichlorobenzene | 2,2-Dichloropropane | 2-Butanone (MEK) | 2-Chlorotoluene | 2-Hexanone | 4-Chlorotoluene |
|-----------------------|----------------------|------------|------------------------|---------------------|---------------------|---------------------|---------------------|------------------|-----------------|------------|-----------------|
| MW 5D                 |                      | 10/27/2014 | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |
|                       |                      | 2/14/2013  | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |
|                       |                      | 12/5/2012  | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <5.0             | <0.5            | <5.0       | <0.5            |
| MW 5S                 | Annual               | 11/24/2015 | <2.0                   | <1.0                | <2.0                | <1.0                | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |
|                       |                      | 12/16/2014 | <2.0                   | <1.0                | <2.0                | <1.0                | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |
|                       |                      | 10/27/2014 | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |
|                       |                      | 12/18/2013 | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <5.0             | <0.5            | <5.0       | <0.5            |
|                       |                      | 2/14/2013  | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |
|                       |                      | 12/5/2012  | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <5.0             | <0.5            | <5.0       | <0.5            |
|                       |                      | 7/10/2012  | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <5.0             | <0.5            | <5.0       | <0.5            |
| MW 7                  |                      | 10/27/2014 | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         |                 |
| MW 8                  | Annual               | 11/24/2015 | <2.0                   | <1.0                | <2.0                | <1.0                | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |
|                       |                      | 12/16/2014 | <2.0                   | <1.0                | <2.0                | <1.0                | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |
|                       |                      | 12/18/2013 | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | <5.0             | <0.5            | <5.0       | <0.5            |
|                       |                      | 3/14/2013  | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |
|                       |                      | 12/7/2012  | <0.5                   | <0.5                | <0.5                | <0.5                | <0.5                | NS               | <0.5            | NS         | <0.5            |
| MW 21S                | Semi-Annual          | 11/10/2015 | <2.0                   | <1.0                | <2.0                | <1.0                | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |
| DPW WELL              | Annual               | 11/24/2015 | <2.0                   | <1.0                | <2.0                | <1.0                | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |
|                       |                      | 12/16/2014 | <2.0                   | <1.0                | <2.0                | <1.0                | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |
| 265 ALSTON AVENUE     | Annual               | 4/1/2015   | <2.0                   | <1.0                | <2.0                | <1.0                | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |
|                       |                      | 3/28/2014  | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |
|                       |                      | 12/18/2013 | <0.50                  | <0.50               | <0.50               | <0.50               | <0.50               | <2.5             | <0.50           |            | <0.50           |
|                       |                      | 3/14/2013  | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              |            | NS              |
|                       |                      | 12/6/2012  | <0.50                  | <0.50               | <0.50               | <0.50               | <0.50               |                  | <0.50           |            | <0.50           |
|                       |                      | 6/21/2012  | <0.50                  | <0.50               | <0.50               | <0.50               | <0.50               | NS               | <0.50           | NS         | <0.50           |
| 280 ALSTON AVENUE     | Annual               | 5/13/2015  | <2.0                   | <1.0                | <2.0                | <1.0                | <2.0                | NS               | <2.0            | <5.0       | <2.0            |
|                       |                      | 12/17/2014 | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |
|                       |                      | 12/18/2013 | <0.50                  | <0.50               | <0.50               | <0.50               | <0.50               | <2.5             | <0.50           | NS         | <0.50           |
|                       |                      | 2/22/2013  | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |
|                       |                      | 12/6/2012  | <0.50                  | <0.50               | <0.50               | <0.50               | <0.50               | NS               | <0.50           | NS         | <0.50           |
|                       |                      | 6/21/2012  | <0.50                  | <0.50               | <0.50               | <0.50               | <0.50               | NS               | <0.50           | NS         | <0.50           |
| 125 MEETINGHOUSE ROAD | Annual               | 5/8/2013   | <0.50                  | <0.50               | <0.50               | <0.50               | <0.50               | <2.5             | <0.50           |            | <0.50           |
|                       |                      | 6/21/2012  | <0.50                  | <0.50               | <0.50               | <0.50               | <0.50               | NS               | <0.50           | NS         | <0.50           |
| 170 MEETINGHOUSE ROAD | Annual               | 5/13/2015  | <2.0                   | <1.0                | <2.0                | <1.0                | <2.0                | NS               | <2.0            | <5.0       | <2.0            |
|                       |                      | 8/15/2014  | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |
|                       |                      | 2/15/2013  | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              |
|                       |                      | 12/8/2012  | <0.50                  | <0.50               | <0.50               | <0.50               | <0.50               | NS               | <0.50           | NS         | <0.50           |
| 75 OLD ORCHARD ROAD   | Annual               | 8/15/2014  | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         |                 |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
ORSG-Office of Research and Standards Guideline  
NS - Not Sampled

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

B - Analyte detected in Blank and Sample

\* Residential samples will be tested for all VOCs during 2nd quarter of the year.

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Report: GW VOC 3

Database: Eastham Landfill Monitoring



| Property              | LMP Sample Frequency | Date       | 1,3,5-Trimethylbenzene | 1,3-Dichlorobenzene | 1,3-Dichloropropane | 1,4-Dichlorobenzene | 2,2-Dichloropropane | 2-Butanone (MEK) | 2-Chlorotoluene | 2-Hexanone | 4-Chlorotoluene |       |
|-----------------------|----------------------|------------|------------------------|---------------------|---------------------|---------------------|---------------------|------------------|-----------------|------------|-----------------|-------|
| 75 OLD ORCHARD ROAD   | Annual               | 2/21/2013  | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              |            | NS              |       |
|                       |                      | 12/6/2012  | <0.50                  | <0.50               | <0.50               | <0.50               | <0.50               | <0.50            | <0.50           |            | <0.50           |       |
|                       |                      | 6/21/2012  | <0.50                  | <0.50               | <0.50               | <0.50               | <0.50               | NS               | <0.50           | NS         | <0.50           |       |
| 130 OLD ORCHARD ROAD  | Annual               | 12/6/2012  | <0.50                  | <0.50               | <0.50               | <0.50               | <0.50               | <0.50            | <0.50           |            | <0.50           |       |
|                       |                      | 6/21/2012  | <0.50                  | <0.50               | <0.50               | <0.50               | <0.50               | NS               | <0.50           | NS         | <0.50           |       |
| 130A OLD ORCHARD ROAD | Annual               | 5/29/2015  | <2.0                   | <1.0                | <2.0                | <1.0                | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |       |
|                       |                      | 12/17/2014 | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              |            | NS              |       |
|                       |                      | 12/18/2013 | <0.50                  | <0.50               | <0.50               | <0.50               | <0.50               | <2.5             | <0.50           |            | <0.50           |       |
|                       |                      | 2/25/2013  | <0.50                  | <0.50               | <0.50               | <0.50               | <0.50               | <2.5             | <0.50           |            | <0.50           |       |
| 130B OLD ORCHARD ROAD | Annual               | 5/29/2015  | <2.0                   | <1.0                | <2.0                | <1.0                | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |       |
|                       |                      | 12/17/2014 | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              |            | NS              |       |
|                       |                      | 12/18/2013 | <0.50                  | <0.50               | <0.50               | <0.50               | <0.50               | <2.5             | <0.50           |            | <0.50           |       |
|                       |                      | 2/25/2013  | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              |            | NS              |       |
| 210 OLD ORCHARD ROAD  | Annual               | 12/18/2013 | <0.50                  | <0.50               | <0.50               | <0.50               | <0.50               | <2.5             | <0.50           |            | <0.50           |       |
|                       |                      | 2/15/2013  | NS                     | NS                  | NS                  | NS                  | NS                  | NS               | NS              |            | NS              |       |
|                       |                      | 12/6/2012  | <0.50                  | <0.50               | <0.50               | <0.50               | <0.50               | <0.50            | <0.50           |            | <0.50           |       |
|                       |                      | 6/21/2012  | <0.50                  | <0.50               | <0.50               | <0.50               | <0.50               | NS               | <0.50           | NS         | <0.50           |       |
| 290 OLD ORCHARD ROAD  | Annual               | 3/2/2015   | Inf.                   | <1.0                | <2.0                | <1.0                | <2.0                | <5.0             | <2.0            | <5.0       | <2.0            |       |
|                       |                      | 3/2/2015   | Eff.                   | <2.0                | <1.0                | <2.0                | <1.0                | <2.0             | <5.0            | <2.0       | <5.0            | <2.0  |
|                       |                      | 7/23/2014  |                        | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         | NS              | NS    |
|                       |                      | 5/16/2013  |                        | NS                  | NS                  | NS                  | NS                  | NS               | NS              | NS         |                 | NS    |
|                       |                      | 5/9/2013   |                        | <0.50               | <0.50               | <0.50               | <0.50               | <0.50            | <2.5            | <0.50      |                 | <0.50 |
|                       |                      | 2/15/2013  |                        | <0.50               | <0.50               | <0.50               | <0.50               | <0.50            | <2.5            | <0.50      |                 | <0.50 |
| 6/21/2012             |                      | <0.50      | <0.50                  | <0.50               | <0.50               | <0.50               | NS                  | <0.50            | NS              | <0.50      |                 |       |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
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NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
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\* Residential samples will be tested for all VOCs during 2nd quarter of the year.

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Report: GW VOC 3  
Datebase: Eastham Landfill Monitoring



**TABLE 4.1**  
**SECTION 4**  
**SUMMARY OF LANDFILL MONITORING PLAN**  
**GROUNDWATER ANALYTICAL RESULTS**  
**Volatile Organic Compounds**

**Eastham Landfill Monitoring Wells and Private Drinking Wells**  
**Eastham, MA**  
**(All results in ug/l)**

| Property         | LMP Sample Frequency | Date       | 4-Isopropyltoluene | 4-Methyl-2-pentanone | Acetone | Benzene | Bromobenzene | Bromochloromethane | Bromoform | Bromomethane | Carbon Disulfide | Carbon tetrachloride |
|------------------|----------------------|------------|--------------------|----------------------|---------|---------|--------------|--------------------|-----------|--------------|------------------|----------------------|
| <b>Standards</b> |                      |            |                    |                      |         |         |              |                    |           |              |                  |                      |
| GW1              |                      |            | NA                 | 350                  | 6300    | 5       | NA           | NA                 | 4         | 10           | NA               | 5                    |
| GW3              |                      |            | NA                 | 50000                | 50000   | 10000   | NA           | NA                 | 50000     | 800          | NA               | 5000                 |
| MMCL             |                      |            | NA                 | NA                   | NA      | 5       | NA           | NA                 | NA        | NA           | NA               | 5                    |
| ORSG             |                      |            | NA                 | 350                  | 6300    | NA      | NA           | NA                 | NA        | 10           | NA               | NA                   |
| <b>Results</b>   |                      |            |                    |                      |         |         |              |                    |           |              |                  |                      |
| MW 10            |                      | 10/27/2014 | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |
| MW 21D           |                      | 10/27/2014 | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |
|                  |                      | 2/25/2013  | <1.0               | <10                  | 14J     | <1.0    | <1.0         | <1.0               | <1.0      | <2.0         | NS               | <1.0                 |
| MW 21S           | Semi-Annual          | 5/13/2015  | <2.0               | <5.0                 | <5.0    | 0.33J   | <2.0         | <2.0               | <2.0      | <2.0         | 1.0J             | <1.0                 |
|                  |                      | 10/27/2014 | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |
|                  |                      | 5/16/2013  | <1.0               | <10                  | < 50    | <1.0    | <1.0         | <1.0               | <1.0      | <2.0         | NS               | <1.0                 |
|                  |                      | 12/7/2012  | <0.5               | NS                   | NS      | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | NS               | <0.5                 |
| MW 2D            |                      | 2/14/2013  | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |
|                  |                      | 12/6/2012  | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | NS               | <0.5                 |
| MW 2S            | Annual               | 11/24/2015 | <2.0               | <5.0                 | <5.0    | <0.5    | <2.0         | <2.0               | <2.0      | <2.0         | 0.45J            | <1.0                 |
|                  |                      | 12/16/2014 | <2.0               | <5.0                 | <5.0    | <0.5    | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <1.0                 |
|                  |                      | 12/18/2013 | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | NS               | <0.5                 |
|                  |                      | 2/14/2013  | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |
|                  |                      | 12/6/2012  | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | NS               | <0.5                 |
|                  |                      | 7/10/2012  | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | NS               | <0.5                 |
| MW 3D            | Quarterly            | 2/23/2016  | <2.0               | <5.0                 | <5.0    | 0.64    | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <1.0                 |
|                  |                      | 11/24/2015 | <2.0               | <5.0                 | <5.0    | 0.69    | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <1.0                 |
|                  |                      | 8/26/2015  | <2.0               | <5.0                 | <5.0    | 0.76    | <2.0         | <2.0               | <2.0      | 0.30 J       | <2.0             | <1.0                 |
|                  |                      | 5/13/2015  | <2.0               | <5.0                 | <5.0    | 0.81    | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <1.0                 |
|                  |                      | 11/10/2014 | <5.0               | <5.0                 | <5.0    | <5.0    | <5.0         | <5.0               | <5.0      | <5.0         | NS               | <5.0                 |
|                  |                      | 11/10/2014 | <5.0               | <5.0                 | <5.0    | <5.0    | <5.0         | <5.0               | <5.0      | <5.0         | NS               | <5.0                 |
|                  |                      | 10/27/2014 | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
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NS - Not Sampled  
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Report: GW VOC 4  
Datebase: Eastham Landfill Monitoring



| Property  | LMP Sample Frequency | Date       | 4-Isopropyltoluene | 4-Methyl-2-pentanone | Acetone | Benzene | Bromobenzene | Bromochloromethane | Bromoform | Bromomethane | Carbon Disulfide | Carbon tetrachloride |      |
|-----------|----------------------|------------|--------------------|----------------------|---------|---------|--------------|--------------------|-----------|--------------|------------------|----------------------|------|
| MW 3D     | Quarterly            | 9/3/2014   | <5.0               | <5.0                 | <5.0    | <5.0    | <5.0         | <5.0               | <5.0      | <5.0         | <5.0             | NS                   | <5.0 |
|           |                      | 5/19/2014  | <1.0               | <5.0                 | <5.0    | 0.79    | <1.0         | <1.0               | <1.0      | <1.0         | <1.0             | NS                   | <1.0 |
|           |                      | 2/27/2014  | <1.0               | <5.0                 | <10     | 1.2     | <1.0         | <1.0               | <1.0      | <1.0         | <1.0             | NS                   | <1.0 |
|           |                      | 11/25/2013 | <0.5               | <5.0                 | <5.0    | 0.96    | <0.5         | <0.5               | <0.5      | <0.5         | <0.5             | NS                   | <0.5 |
|           |                      | 9/5/2013   | <0.5               | <5.0                 | <5.0    | 1.0     | <0.5         | <0.5               | <0.5      | <0.5         | <0.5             | NS                   | <0.5 |
|           |                      | 5/8/2013   | <0.5               | <5.0                 | <5.0    | 0.91    | <0.5         | <0.5               | <0.5      | <0.5         | <0.5             | NS                   | <0.5 |
|           |                      | 2/14/2013  | <0.5               | <5.0                 | <5.0    | 1.0     | <0.5         | <0.5               | <0.5      | <0.5         | <0.5             | NS                   | <0.5 |
|           |                      | 12/6/2012  | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | <0.5             | NS                   | <0.5 |
|           |                      | 10/9/2012  | <0.5               | <5.0                 | <5.0    | 1.2     | <0.5         | <0.5               | <0.5      | <0.5         | <0.5             | NS                   | <0.5 |
|           |                      | 7/10/2012  | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | <0.5             | NS                   | <0.5 |
|           |                      | 3/20/2012  | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | <0.5             | NS                   | <0.5 |
| MW 3I     | Quarterly            | 2/23/2016  | <2.0               | <5.0                 | <5.0    | <0.5    | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <2.0                 | <1.0 |
|           |                      | 11/24/2015 | <2.0               | <5.0                 | 1.8J    | <0.5    | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <2.0                 | <1.0 |
|           |                      | 8/26/2015  | <2.0               | <5.0                 | <5.0    | <0.5    | <2.0         | <2.0               | <2.0      | <2.0         | 0.35 J           | <2.0                 | <1.0 |
|           |                      | 5/13/2015  | <2.0               | <5.0                 | <5.0    | <0.5    | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <2.0                 | <1.0 |
|           |                      | 12/16/2014 | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   | NS   |
|           |                      | 11/10/2014 | <5.0               | <5.0                 | <5.0    | <5.0    | <5.0         | <5.0               | <5.0      | <5.0         | <5.0             | NS                   | <5.0 |
|           |                      | 9/3/2014   | <5.0               | <5.0                 | <5.0    | <5.0    | <5.0         | <5.0               | <5.0      | <5.0         | <5.0             | NS                   | <5.0 |
|           |                      | 5/19/2014  | <1.0               | <5.0                 | <5.0    | <1.0    | <1.0         | <1.0               | <1.0      | <1.0         | <1.0             | NS                   | <1.0 |
|           |                      | 2/27/2014  | <1.0               | <5.0                 | <10     | <1.0    | <1.0         | <1.0               | <1.0      | <1.0         | <1.0             | NS                   | <1.0 |
|           |                      | 11/25/2013 | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | <0.5             | NS                   | <0.5 |
|           |                      | 9/5/2013   | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | <0.5             | NS                   | <0.5 |
|           |                      | 5/8/2013   | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | <0.5             | NS                   | <0.5 |
|           |                      | 2/14/2013  | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | <0.5             | NS                   | <0.5 |
|           |                      | 2/14/2013  | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   | NS   |
|           |                      | 12/6/2012  | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | <0.5             | NS                   | <0.5 |
|           |                      | 10/9/2012  | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | <0.5             | NS                   | <0.5 |
| 7/10/2012 | <0.5                 | <5.0       | <5.0               | <0.5                 | <0.5    | <0.5    | <0.5         | <0.5               | <0.5      | NS           | <0.5             |                      |      |
| 3/20/2012 | <0.5                 | <5.0       | <5.0               | <0.5                 | <0.5    | <0.5    | <0.5         | <0.5               | <0.5      | NS           | <0.5             |                      |      |
| MW 3S     |                      | 2/14/2013  | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |      |
|           |                      | 12/6/2012  | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | <0.5             | NS                   | <0.5 |
| MW 4D     |                      | 10/27/2014 | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |      |
|           |                      | 2/14/2013  | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |      |
|           |                      | 12/6/2012  | <0.5               | <5.0                 | <5      | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | <0.5             | NS                   | <0.5 |
| MW 4S     | Annual               | 11/24/2015 | <2.0               | <5.0                 | <5.0    | <0.5    | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | 0.30J                | <1.0 |
|           |                      | 12/16/2014 | <2.0               | <5.0                 | <5.0    | <0.5    | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <2.0                 | <1.0 |
|           |                      | 10/27/2014 | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   | NS   |
|           |                      | 12/18/2013 | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | <0.5             | NS                   | <0.5 |
|           |                      | 2/14/2013  | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   | NS   |
|           |                      | 12/6/2012  | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | <0.5             | NS                   | <0.5 |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
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NS - Not Sampled  
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| Property          | LMP Sample Frequency | Date       | 4-Isopropyltoluene | 4-Methyl-2-pentanone | Acetone | Benzene | Bromobenzene | Bromochloromethane | Bromoform | Bromomethane | Carbon Disulfide | Carbon tetrachloride |
|-------------------|----------------------|------------|--------------------|----------------------|---------|---------|--------------|--------------------|-----------|--------------|------------------|----------------------|
| MW 4S             | Annual               | 7/10/2012  | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | NS               | <0.5                 |
| MW 5D             |                      | 10/27/2014 | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |
|                   |                      | 2/14/2013  | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |
|                   |                      | 12/5/2012  | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | NS               | <0.5                 |
| MW 5S             | Annual               | 11/24/2015 | <2.0               | <5.0                 | <5.0    | 0.21J   | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <1.0                 |
|                   |                      | 12/16/2014 | <2.0               | <5.0                 | <5.0    | 0.20J   | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <1.0                 |
|                   |                      | 10/27/2014 | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |
|                   |                      | 12/18/2013 | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | NS               | <0.5                 |
|                   |                      | 2/14/2013  | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |
|                   |                      | 12/5/2012  | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | NS               | <0.5                 |
|                   |                      | 7/10/2012  | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | NS               | <0.5                 |
| MW 7              |                      | 10/27/2014 | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |
| MW 8              | Annual               | 11/24/2015 | <2.0               | <5.0                 | <5.0    | <0.5    | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <1.0                 |
|                   |                      | 12/16/2014 | <2.0               | <5.0                 | <5.0    | <0.5    | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <1.0                 |
|                   |                      | 12/18/2013 | <0.5               | <5.0                 | <5.0    | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | NS               | <0.5                 |
|                   |                      | 3/14/2013  | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |
|                   |                      | 12/7/2012  | <0.5               | NS                   | NS      | <0.5    | <0.5         | <0.5               | <0.5      | <0.5         | NS               | <0.5                 |
| MW 21S            | Semi-Annual          | 11/10/2015 | <2.0               | <5.0                 | 1.6J    | <0.50   | <2.0         | <2.0               | <2.0      | <2.0         | 0.42J            | <1.0                 |
| DPW WELL          | Annual               | 11/24/2015 | <2.0               | <5.0                 | 2.1J    | <0.5    | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <1.0                 |
|                   |                      | 12/16/2014 | <2.0               | <5.0                 | <5.0    | <0.5    | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <1.0                 |
| 265 ALSTON AVENUE |                      | 4/1/2015   | <2.0               | <5.0                 | <5.0    | <0.50   | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <1.0                 |
|                   | Annual               | 3/28/2014  | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |
|                   |                      | 12/18/2013 | <0.50              | <2.5                 | 0.75J   | <0.50   | <0.50        | <0.50              | <0.50     | <0.50        | NS               | <0.50                |
|                   |                      | 3/14/2013  | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |
|                   |                      | 12/6/2012  | <0.50              |                      |         | <0.50   | <0.50        | <0.50              | <0.50     | <0.50        | NS               | <0.50                |
|                   |                      | 6/21/2012  | <0.50              | NS                   | NS      | <0.50   | <0.50        | <0.50              | <0.50     | <0.50        | NS               | <0.50                |
| 280 ALSTON AVENUE | Annual               | 5/13/2015  | <2.0               | <5.0                 | <5.0    | <0.50   | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <1.0                 |
|                   |                      | 12/17/2014 | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |
|                   |                      | 12/18/2013 | <0.50              | <2.5                 | <2.5    | <0.50   | <0.50        | <0.50              | <0.50     | <0.50        | NS               | <0.50                |
|                   |                      | 2/22/2013  | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |
|                   |                      | 12/6/2012  | <0.50              | NS                   | NS      | <0.50   | <0.50        | <0.50              | <0.50     | <0.50        | NS               | <0.50                |
|                   |                      | 6/21/2012  | <0.50              | NS                   | NS      | <0.50   | <0.50        | <0.50              | <0.50     | <0.50        | NS               | <0.50                |
| 125 MEETINGHOUSE  | Annual               | 5/8/2013   | <0.50              | <2.5                 | <2.5    | <0.50   | <0.50        | <0.50              | <0.50     | <0.50        | NS               | <0.50                |
|                   |                      | 6/21/2012  | <0.50              | NS                   | NS      | <0.50   | <0.50        | <0.50              | <0.50     | <0.50        | NS               | <0.50                |
| 170 MEETINGHOUSE  | Annual               | 5/13/2015  | <2.0               | <5.0                 | <5.0    | <0.50   | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <1.0                 |
|                   |                      | 8/15/2014  | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |
|                   |                      | 2/15/2013  | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |
|                   |                      | 12/8/2012  | <0.50              | NS                   | NS      | <0.50   | <0.50        | <0.50              | <0.50     | <0.50        | NS               | <0.50                |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
ORSG-Office of Research and Standards Guideline  
NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* Residential samples will be tested for all VOCs during 2nd quarter of the year.



| Property         | LMP Sample Frequency | Date       | 4-Isopropyltoluene | 4-Methyl-2-pentanone | Acetone | Benzene | Bromobenzene | Bromochloromethane | Bromoform | Bromomethane | Carbon Disulfide | Carbon tetrachloride |       |
|------------------|----------------------|------------|--------------------|----------------------|---------|---------|--------------|--------------------|-----------|--------------|------------------|----------------------|-------|
| 75 OLD ORCHARD   | Annual               | 8/15/2014  | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |       |
|                  |                      | 2/21/2013  | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |       |
|                  |                      | 12/6/2012  | <0.50              |                      | <0.50   | <0.50   | <0.50        | <0.50              | <0.50     | <0.50        | <0.50            | NS                   | <0.50 |
|                  |                      | 6/21/2012  | <0.50              | NS                   | NS      | <0.50   | <0.50        | <0.50              | <0.50     | <0.50        | <0.50            | NS                   | <0.50 |
| 130 OLD ORCHARD  | Annual               | 12/6/2012  | <0.50              |                      | <0.50   | <0.50   | <0.50        | <0.50              | <0.50     | <0.50        | NS               | <0.50                |       |
|                  |                      | 6/21/2012  | <0.50              | NS                   | NS      | <0.50   | <0.50        | <0.50              | <0.50     | <0.50        | <0.50            | NS                   | <0.50 |
|                  |                      |            |                    |                      |         |         |              |                    |           |              |                  |                      |       |
| 130A OLD ORCHARD | Annual               | 5/29/2015  | <2.0               | <5.0                 | <5.0    | <0.5    | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <1.0                 |       |
|                  |                      | 12/17/2014 | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |       |
|                  |                      | 12/18/2013 | <0.50              | <2.5                 | 1.9J    | <0.50   | <0.50        | <0.50              | <0.50     | <0.50        | <0.50            | NS                   | <0.50 |
|                  |                      | 2/25/2013  | <0.50              | <2.5                 | <2.5    | <0.50   | <0.50        | <0.50              | <0.50     | <0.50        | <0.50            | NS                   | <0.50 |
| 130B OLD ORCHARD | Annual               | 5/29/2015  | <2.0               | <5.0                 | <5.0    | <0.5    | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <1.0                 |       |
|                  |                      | 12/17/2014 | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |       |
|                  |                      | 12/18/2013 | <0.50              | <2.5                 | <2.5    | <0.50   | <0.50        | <0.50              | <0.50     | <0.50        | <0.50            | NS                   | <0.50 |
|                  |                      | 2/25/2013  | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   | NS    |
| 210 OLD ORCHARD  | Annual               | 12/18/2013 | <0.50              | <2.5                 | <2.5    | <0.50   | <0.50        | <0.50              | <0.50     | <0.50        | NS               | <0.50                |       |
|                  |                      | 2/15/2013  | NS                 | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |       |
|                  |                      | 12/6/2012  | <0.50              |                      | <0.50   | <0.50   | <0.50        | <0.50              | <0.50     | <0.50        | <0.50            | NS                   | <0.50 |
|                  |                      | 6/21/2012  | <0.50              | NS                   | NS      | <0.50   | <0.50        | <0.50              | <0.50     | <0.50        | <0.50            | NS                   | <0.50 |
| 290 OLD ORCHARD  | Annual               | 3/2/2015   | Inf.               | <2.0                 | <5.0    | <0.50   | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <1.0                 |       |
|                  |                      | 3/2/2015   | Eff.               | <2.0                 | <5.0    | <0.50   | <2.0         | <2.0               | <2.0      | <2.0         | <2.0             | <1.0                 |       |
|                  |                      | 7/23/2014  |                    | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |       |
|                  |                      | 5/16/2013  |                    | NS                   | NS      | NS      | NS           | NS                 | NS        | NS           | NS               | NS                   |       |
|                  |                      | 5/9/2013   |                    | <0.50                | <2.5    | <2.5    | <0.50        | <0.50              | <0.50     | <0.50        | <0.50            | NS                   | <0.50 |
|                  |                      | 2/15/2013  |                    | <0.50                | <2.5    | <2.5    | <0.50        | <0.50              | <0.50     | <0.50        | <0.50            | NS                   | <0.50 |
| 6/21/2012        |                      | <0.50      | NS                 | NS                   | <0.50   | <0.50   | <0.50        | <0.50              | <0.50     | NS           | <0.50            |                      |       |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
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NS - Not Sampled  
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Report: GW VOC 4  
Datebase: Eastham Landfill Monitoring



**TABLE 4.1**  
**SECTION 5**  
**SUMMARY OF LANDFILL MONITORING PLAN**  
**GROUNDWATER ANALYTICAL RESULTS**  
**Volatile Organic Compounds**  
**Eastham Landfill Monitoring Wells and Private Drinking Wells**  
**Eastham, MA**  
**(All results in ug/l)**

| Property         | LMP Sample Frequency | Date       | Chlorobenzene | Chlorodibromomethane | Chloroethane | Chloroform | Chloromethane | cis-1,2-Dichloroethene | cis-1,3-Dichloropropene | Dibromomethane |
|------------------|----------------------|------------|---------------|----------------------|--------------|------------|---------------|------------------------|-------------------------|----------------|
| <b>Standards</b> |                      |            |               |                      |              |            |               |                        |                         |                |
| GW1              |                      |            | 100           | 2                    | NA           | 70         | NA            | 70                     | NA                      | NA             |
| GW3              |                      |            | 1000          | 50000                | NA           | 20000      | NA            | 50000                  | NA                      | NA             |
| MMCL             |                      |            | 100           | NA                   | NA           | NA         | NA            | 70                     | NA                      | NA             |
| ORSG             |                      |            | NA            | NA                   | NA           | 70         | NA            | NA                     | NA                      | NA             |
| <b>Results</b>   |                      |            |               |                      |              |            |               |                        |                         |                |
| MW 10            |                      | 10/27/2014 | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
| MW 21D           |                      | 10/27/2014 | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                  |                      | 2/25/2013  | <1.0          | <0.50                | <2.0         | <1.0       | <2.0          | <1.0                   | < 0.40                  | <1.0           |
| MW 21S           | Semi-Annual          | 5/13/2015  | <1.0          | <1.0                 | <2.0         | <1.0       | <2.0          | 0.37J                  | <0.50                   | <2.0           |
|                  |                      | 10/27/2014 | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                  |                      | 5/16/2013  | <1.0          | <0.50                | <2.0         | <1.0       | <2.0          | <1.0                   | < 0.40                  | <1.0           |
|                  |                      | 12/7/2012  | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
| MW 2D            |                      | 2/14/2013  | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                  |                      | 12/6/2012  | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
| MW 2S            | Annual               | 11/24/2015 | <1.0          | <1.0                 | <2.0         | <1.0       | <2.0          | 0.36J                  | <0.5                    | <2.0           |
|                  |                      | 12/16/2014 | <1.0          | <1.0                 | <2.0         | <1.0       | <2.0          | 0.20J                  | <0.5                    | <2.0           |
|                  |                      | 12/18/2013 | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
|                  |                      | 2/14/2013  | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                  |                      | 12/6/2012  | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
|                  |                      | 7/10/2012  | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
| MW 3D            | Quarterly            | 2/23/2016  | 0.81J         | <1.0                 | <2.0         | <1.0       | <2.0          | 1.2                    | <0.5                    | <2.0           |
|                  |                      | 11/24/2015 | 1.0           | <1.0                 | <2.0         | <1.0       | <2.0          | 1.5                    | <0.5                    | <2.0           |
|                  |                      | 8/26/2015  | 0.93 J        | <1.0                 | <2.0         | <1.0       | <2.0          | 1.4                    | <0.5                    | <2.0           |
|                  |                      | 5/13/2015  | 1.0           | <1.0                 | 0.38J        | <1.0       | <2.0          | 1.4                    | <0.5                    | <2.0           |
|                  |                      | 11/10/2014 | <5.0          | <5.0                 | <5.0         | <5.0       | <5.0          | <5.0                   | <5.0                    | <5.0           |
|                  |                      | 11/10/2014 | Duplicate     | <5.0                 | <5.0         | <5.0       | <5.0          | <5.0                   | <5.0                    | <5.0           |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
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ORSG-Office of Research and Standards Guideline  
NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
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Report: GW VOC 5  
Datebase: Eastham Landfill Monitoring



| Property   | LMP Sample Frequency | Date       | Chlorobenzene | Chlorodibromomethane | Chloroethane | Chloroform | Chloromethane | cis-1,2-Dichloroethene | cis-1,3-Dichloropropene | Dibromomethane |
|------------|----------------------|------------|---------------|----------------------|--------------|------------|---------------|------------------------|-------------------------|----------------|
| MW 3D      | Quarterly            | 10/27/2014 | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|            |                      | 9/3/2014   | <5.0          | <5.0                 | <5.0         | <5.0       | <5.0          | <5.0                   | <5.0                    | <5.0           |
|            |                      | 5/19/2014  | 1.3           | <5.0                 | <1.0         | <1.0       | <1.0          | 1.1                    | <0.50                   | <1.0           |
|            |                      | 2/27/2014  | 1.6           | <5.0                 | <1.0         | <1.0       | <1.0          | 2.0                    | <0.50                   | <1.0           |
|            |                      | 11/25/2013 | <0.5          | <0.5                 | 1.3          | <0.5       | 1.4           | <0.5                   | <0.5                    | <0.5           |
|            |                      | 9/5/2013   | 1.6           | <0.5                 | <0.5         | <0.5       | <0.5          | 1.6                    | <0.5                    | <0.5           |
|            |                      | 5/8/2013   | 1.4           | <0.5                 | <0.5         | <0.5       | <0.5          | 1.1                    | <0.5                    | <0.5           |
|            |                      | 2/14/2013  | 1.6           | <0.5                 | <0.5         | <0.5       | <0.5          | 1.5                    | <0.5                    | <0.5           |
|            |                      | 12/6/2012  | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
|            |                      | 10/9/2012  | 1.9           | <0.5                 | 0.58         | <0.5       | <0.5          | 1.3                    | <0.5                    | <0.5           |
|            |                      | 7/10/2012  | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
|            |                      | 3/20/2012  | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
|            |                      | MW 3I      | Quarterly     | 2/23/2016            | 0.27J        | <1.0       | <2.0          | <1.0                   | <2.0                    | 0.29J          |
| 11/24/2015 | 0.37J                |            |               | <1.0                 | <2.0         | <1.0       | <2.0          | <1.0                   | <0.5                    | <2.0           |
| 8/26/2015  | 0.32 J               |            |               | <1.0                 | <2.0         | <1.0       | <2.0          | 0.30 J                 | <0.5                    | <2.0           |
| 5/13/2015  | 0.30J                |            |               | <1.0                 | <2.0         | <1.0       | <2.0          | 0.28J                  | <0.5                    | <2.0           |
| 12/16/2014 | NS                   |            |               | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
| 11/10/2014 | <5.0                 |            |               | <5.0                 | <5.0         | <5.0       | <5.0          | <5.0                   | <5.0                    | <5.0           |
| 9/3/2014   | <5.0                 |            |               | <5.0                 | <5.0         | <5.0       | <5.0          | <5.0                   | <5.0                    | <5.0           |
| 5/19/2014  | <1.0                 |            |               | <5.0                 | <1.0         | <1.0       | <1.0          | <1.0                   | <0.50                   | <1.0           |
| 2/27/2014  | <1.0                 |            |               | <5.0                 | <1.0         | <1.0       | <1.0          | <1.0                   | <0.50                   | <1.0           |
| 11/25/2013 | <0.5                 |            |               | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
| 9/5/2013   | <0.5                 |            |               | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
| 5/8/2013   | <0.5                 |            |               | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
| 2/14/2013  | <0.5                 |            |               | <0.5                 | <0.5         | <0.5       | <0.5          | 0.84                   | <0.5                    | <0.5           |
| 2/14/2013  | NS                   |            |               | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
| 12/6/2012  | <0.5                 |            |               | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
| 10/9/2012  | <0.5                 | <0.5       | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   |                         |                |
| 7/10/2012  | <0.5                 | <0.5       | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   |                         |                |
| 3/20/2012  | <0.5                 | <0.5       | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   |                         |                |
| MW 3S      |                      | 2/14/2013  | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|            |                      | 12/6/2012  | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
| MW 4D      |                      | 10/27/2014 | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|            |                      | 2/14/2013  | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|            |                      | 12/6/2012  | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
| MW 4S      | Annual               | 11/24/2015 | 0.38J         | <1.0                 | <2.0         | <1.0       | <2.0          | 0.40J                  | <0.5                    | <2.0           |
|            |                      | 12/16/2014 | 0.41J         | <1.0                 | 0.26J        | <1.0       | <2.0          | 0.28J                  | <0.5                    | <2.0           |
|            |                      | 10/27/2014 | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
ORSG-Office of Research and Standards Guideline  
NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* Residential samples will be tested for all VOCs during 2nd quarter of the year.



| Property              | LMP Sample Frequency | Date       | Chlorobenzene | Chlorodibromomethane | Chloroethane | Chloroform | Chloromethane | cis-1,2-Dichloroethene | cis-1,3-Dichloropropene | Dibromomethane |
|-----------------------|----------------------|------------|---------------|----------------------|--------------|------------|---------------|------------------------|-------------------------|----------------|
| MW 4S                 | Annual               | 12/18/2013 | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
|                       |                      | 2/14/2013  | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                       |                      | 12/6/2012  | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
|                       |                      | 7/10/2012  | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
| MW 5D                 | Annual               | 10/27/2014 | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                       |                      | 2/14/2013  | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                       |                      | 12/5/2012  | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
| MW 5S                 | Annual               | 11/24/2015 | 0.41J         | <1.0                 | <2.0         | <1.0       | <2.0          | 0.57J                  | <0.5                    | <2.0           |
|                       |                      | 12/16/2014 | 0.29J         | <1.0                 | <2.0         | <1.0       | <2.0          | 0.50J                  | <0.5                    | <2.0           |
|                       |                      | 10/27/2014 | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                       |                      | 12/18/2013 | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | 0.51                   | <0.5                    | <0.5           |
|                       |                      | 2/14/2013  | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                       |                      | 12/5/2012  | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | 0.51                   | <0.5                    | <0.5           |
|                       |                      | 7/10/2012  | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
| MW 7                  | Annual               | 10/27/2014 | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      |                |
| MW 8                  | Annual               | 11/24/2015 | <1.0          | <1.0                 | <2.0         | 0.28J      | <2.0          | <1.0                   | <0.5                    | <2.0           |
|                       |                      | 12/16/2014 | <1.0          | <1.0                 | <2.0         | 0.22J      | <2.0          | <1.0                   | <0.5                    | <2.0           |
|                       |                      | 12/18/2013 | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
|                       |                      | 3/14/2013  | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                       |                      | 12/7/2012  | <0.5          | <0.5                 | <0.5         | <0.5       | <0.5          | <0.5                   | <0.5                    | <0.5           |
| MW 21S                | Semi-Annual          | 11/10/2015 | <1.0          | <1.0                 | <2.0         | <1.0       | <2.0          | <1.0                   | <0.50                   | <2.0           |
| DPW WELL              | Annual               | 11/24/2015 | <1.0          | <1.0                 | <2.0         | <1.0       | <2.0          | <1.0                   | <0.5                    | <2.0           |
|                       |                      | 12/16/2014 | <1.0          | <1.0                 | <2.0         | <1.0       | <2.0          | <1.0                   | <0.5                    | <2.0           |
| 265 ALSTON AVENUE     | Annual               | 4/1/2015   | <1.0          | <1.0                 | <2.0         | 0.17J      | <2.0          | <1.0                   | <0.50                   | <2.0           |
|                       |                      | 3/28/2014  | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                       |                      | 12/18/2013 | <0.50         | <0.50                | <0.50        | 0.18J      | <0.50         | <0.50                  | <0.50                   | <0.50          |
|                       |                      | 3/14/2013  | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                       |                      | 12/6/2012  | <0.50         | <0.50                | <0.50        | <0.50      | <0.50         | <0.50                  | <0.50                   | <0.50          |
|                       |                      | 6/21/2012  | <0.50         | <0.50                | <0.50        | <0.50      | <0.50         | <0.50                  | <0.50                   | <0.50          |
| 280 ALSTON AVENUE     | Annual               | 5/13/2015  | <1.0          | <1.0                 | <2.0         | <1.0       | <2.0          | <1.0                   | <0.50                   | <2.0           |
|                       |                      | 12/17/2014 | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                       |                      | 12/18/2013 | <0.50         | <0.50                | <0.50        | <0.50      | <0.50         | <0.50                  | <0.50                   | <0.50          |
|                       |                      | 2/22/2013  | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                       |                      | 12/6/2012  | <0.50         | <0.50                | <0.50        | <0.50      | <0.50         | <0.50                  | <0.50                   | <0.50          |
|                       |                      | 6/21/2012  | <0.50         | <0.50                | <0.50        | <0.50      | <0.50         | <0.50                  | <0.50                   | <0.50          |
| 125 MEETINGHOUSE ROAD | Annual               | 5/8/2013   | <0.50         | <0.50                | <0.50        | <0.50      | <0.50         | <0.50                  | <0.50                   |                |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
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NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* Residential samples will be tested for all VOCs during 2nd quarter of the year.



| Property              | LMP Sample Frequency | Date       | Chlorobenzene | Chlorodibromomethane | Chloroethane | Chloroform | Chloromethane | cis-1,2-Dichloroethene | cis-1,3-Dichloropropene | Dibromomethane |
|-----------------------|----------------------|------------|---------------|----------------------|--------------|------------|---------------|------------------------|-------------------------|----------------|
| 125 MEETINGHOUSE ROAD | Annual               | 6/21/2012  | <0.50         | <0.50                | <0.50        | <0.50      | <0.50         | <0.50                  | <0.50                   | <0.50          |
| 170 MEETINGHOUSE ROAD | Annual               | 5/13/2015  | <1.0          | <1.0                 | <2.0         | 0.36J      | <2.0          | <1.0                   | <0.50                   | <2.0           |
|                       |                      | 8/15/2014  | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                       |                      | 2/15/2013  | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                       |                      | 12/8/2012  | <0.50         | <0.50                | <0.50        | <0.50      | <0.50         | <0.50                  | <0.50                   | <0.50          |
| 75 OLD ORCHARD ROAD   | Annual               | 8/15/2014  | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                       |                      | 2/21/2013  | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                       |                      | 12/6/2012  | <0.50         | <0.50                | <0.50        | <0.50      | <0.50         | <0.50                  | <0.50                   | <0.50          |
|                       |                      | 6/21/2012  | <0.50         | <0.50                | <0.50        | <0.50      | <0.50         | <0.50                  | <0.50                   | <0.50          |
| 130 OLD ORCHARD ROAD  | Annual               | 12/6/2012  | <0.50         | <0.50                | <0.50        | <0.50      | <0.50         | <0.50                  | <0.50                   | <0.50          |
|                       |                      | 6/21/2012  | <0.50         | <0.50                | <0.50        | <0.50      | <0.50         | <0.50                  | <0.50                   | <0.50          |
| 130A OLD ORCHARD ROAD | Annual               | 5/29/2015  | <1.0          | <1.0                 | <2.0         | <1.0       | <2.0          | <1.0                   | <0.5                    | <2.0           |
|                       |                      | 12/17/2014 | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                       |                      | 12/18/2013 | <0.50         | <0.50                | <0.50        | <0.50      | <0.50         | <0.50                  | <0.50                   | <0.50          |
|                       |                      | 2/25/2013  | <0.50         | <0.50                | <0.50        | <0.50      | 0.13J         | <0.50                  | <0.50                   | <0.50          |
| 130B OLD ORCHARD ROAD | Annual               | 5/29/2015  | <1.0          | <1.0                 | <2.0         | <1.0       | <2.0          | <1.0                   | <0.5                    | <2.0           |
|                       |                      | 12/17/2014 | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                       |                      | 12/18/2013 | <0.50         | <0.50                | <0.50        | <0.50      | <0.50         | <0.50                  | <0.50                   | <0.50          |
|                       |                      | 2/25/2013  | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
| 210 OLD ORCHARD ROAD  | Annual               | 12/18/2013 | <0.50         | <0.50                | <0.50        | 0.19J      | <0.50         | <0.50                  | <0.50                   | <0.50          |
|                       |                      | 2/15/2013  | NS            | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                       |                      | 12/6/2012  | <0.50         | <0.50                | <0.50        | <0.50      | <0.50         | <0.50                  | <0.50                   | <0.50          |
|                       |                      | 6/21/2012  | <0.50         | <0.50                | <0.50        | <0.50      | <0.50         | <0.50                  | <0.50                   | <0.50          |
| 290 OLD ORCHARD ROAD  | Annual               | 3/2/2015   | Inf.          | <1.0                 | <2.0         | 0.46J      | <2.0          | <1.0                   | <0.50                   | <2.0           |
|                       |                      | 3/2/2015   | Eff.          | <1.0                 | <1.0         | <2.0       | 0.18J         | <2.0                   | <1.0                    | <0.50          |
|                       |                      | 7/23/2014  |               | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                       |                      | 5/16/2013  |               | NS                   | NS           | NS         | NS            | NS                     | NS                      | NS             |
|                       |                      | 5/9/2013   |               | <0.50                | <0.50        | <0.50      | 0.25J         | <0.50                  | <0.50                   | <0.50          |
|                       |                      | 2/15/2013  |               | <0.50                | <0.50        | <0.50      | 0.38J         | 0.099J                 | <0.50                   | <0.50          |
|                       |                      | 6/21/2012  |               | <0.50                | <0.50        | <0.50      | <0.50         | <0.50                  | <0.50                   | <0.50          |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
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NS - Not Sampled  
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Report: GW VOC 5  
Datebase: Eastham Landfill Monitoring



**TABLE 4.1**  
**SECTION 6**  
**SUMMARY OF LANDFILL MONITORING PLAN**  
**GROUNDWATER ANALYTICAL RESULTS**  
**Volatile Organic Compounds**  
**Eastham Landfill Monitoring Wells and Private Drinking Wells**  
**Eastham, MA**  
**(All results in ug/l)**

| Property         | LMP Sample Frequency | Date       | Dichlorobromomethane | Dichlorodifluoromethane | Ethylbenzene | Ethyl Ether | ETBE | Hexachlorobutadiene | Isopropylbenzene | Methyl tert-butyl ether | Methylene Chloride |
|------------------|----------------------|------------|----------------------|-------------------------|--------------|-------------|------|---------------------|------------------|-------------------------|--------------------|
| <b>Standards</b> |                      |            |                      |                         |              |             |      |                     |                  |                         |                    |
| GW1              |                      |            | 3                    | NA                      | 700          | NA          | NA   | 0.6                 | NA               | 70                      | 5                  |
| GW3              |                      |            | 50000                | NA                      | 5000         | NA          | NA   | 3000                | NA               | 50000                   | 50000              |
| MMCL             |                      |            | NA                   | NA                      | 700          | NA          | NA   | NA                  | NA               | NA                      | 5                  |
| ORSG             |                      |            | NA                   | 1400                    | NA           | NA          | NA   | NA                  | NA               | 70                      | NA                 |
| <b>Results</b>   |                      |            |                      |                         |              |             |      |                     |                  |                         |                    |
| MW 10            |                      | 10/27/2014 | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
| MW 21D           |                      | 10/27/2014 | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                  |                      | 2/25/2013  | <0.50                | <1.0                    | <1.0         | NS          | NS   | < 0.40              | <1.0             | 0.20J                   | <1.0               |
| MW 21S           | Semi-Annual          | 5/13/2015  | <1.0                 | <2.0                    | <1.0         | 4.7         | <2.0 | <0.60               | <2.0             | 0.68J                   | <2.0               |
|                  |                      | 10/27/2014 | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                  |                      | 5/16/2013  | <0.50                | <1.0                    | <1.0         | NS          | NS   | < 0.40              | <1.0             | 0.16J                   | <1.0               |
|                  |                      | 12/7/2012  | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
| MW 2D            |                      | 2/14/2013  | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                  |                      | 12/6/2012  | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
| MW 2S            | Annual               | 11/24/2015 | <1.0                 | <2.0                    | <1.0         | 1.4J        | <2.0 | <0.6                | <2.0             | <2.0                    | <2.0               |
|                  |                      | 12/16/2014 | <1.0                 | <2.0                    | <1.0         | 0.82J       | <2.0 | < 0.6               | <2.0             | <2.0                    | <2.0               |
|                  |                      | 12/18/2013 | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
|                  |                      | 2/14/2013  | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                  |                      | 12/6/2012  | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
|                  |                      | 7/10/2012  | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
| MW 3D            | Quarterly            | 2/23/2016  | <1.0                 | <2.0                    | <1.0         | 18          | <2.0 | <0.6                | <2.0             | 0.58J                   | <2.0               |
|                  |                      | 11/24/2015 | <1.0                 | <2.0                    | <1.0         | 20          | <2.0 | <0.6                | <2.0             | 0.94J                   | <2.0               |
|                  |                      | 8/26/2015  | <1.0                 | <2.0                    | <1.0         | 24          | <2.0 | <0.6                | <2.0             | 0.89J                   | <2.0               |
|                  |                      | 5/13/2015  | <1.0                 | <2.0                    | <1.0         | 26          | <2.0 | <0.6                | <2.0             | 0.63J                   | <2.0               |
|                  |                      | 11/10/2014 | <5.0                 | <5.0                    | <5.0         | NS          | NS   | <5.0                | <5.0             | <5.0                    | <5.0               |
|                  |                      | 11/10/2014 | Duplicate            | <5.0                    | <5.0         | NS          | NS   | <5.0                | <5.0             | <5.0                    | <5.0               |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
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NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
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\* Residential samples will be tested for all VOCs during 2nd quarter of the year.



| Property  | LMP Sample Frequency | Date       | Dichlorobromomethane | Dichlorodifluoromethane | Ethylbenzene | Ethyl Ether | ETBE | Hexachlorobutadiene | Isopropylbenzene | Methyl tert-butyl ether | Methylene Chloride |
|-----------|----------------------|------------|----------------------|-------------------------|--------------|-------------|------|---------------------|------------------|-------------------------|--------------------|
| MW 3D     | Quarterly            | 10/27/2014 | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|           |                      | 9/3/2014   | <5.0                 | <5.0                    | <5.0         | NS          | NS   | <5.0                | <5.0             | <5.0                    | <5.0               |
|           |                      | 5/19/2014  | <1.0                 | <1.0                    | <1.0         | NS          | NS   | <0.50               | <1.0             | 0.95                    | <5.0               |
|           |                      | 2/27/2014  | <1.0                 | <1.0                    | <1.0         | NS          | NS   | <0.50               | <1.0             | 1.2                     | <5.0               |
|           |                      | 11/25/2013 | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | 0.92               |
|           |                      | 9/5/2013   | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | 0.95                    | <0.5               |
|           |                      | 5/8/2013   | <0.5                 | 0.60                    | <0.5         | NS          | NS   | <0.5                | <0.5             | 1.1                     | <0.5               |
|           |                      | 2/14/2013  | <0.5                 | 0.51                    | <0.5         | NS          | NS   | <0.5                | <0.5             | 1.2                     | <0.5               |
|           |                      | 12/6/2012  | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
|           |                      | 10/9/2012  | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | 1.6                     | <0.5               |
|           |                      | 7/10/2012  | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
|           |                      | 3/20/2012  | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
| MW 3I     | Quarterly            | 2/23/2016  | <1.0                 | <2.0                    | <1.0         | 0.22J       | <2.0 | <0.6                | <2.0             | <2.0                    | <2.0               |
|           |                      | 11/24/2015 | <1.0                 | <2.0                    | <1.0         | <2.0        | <2.0 | <0.6                | <2.0             | <2.0                    | <2.0               |
|           |                      | 8/26/2015  | <1.0                 | <2.0                    | <1.0         | 0.24 J      | <2.0 | <0.6                | <2.0             | <2.0                    | <2.0               |
|           |                      | 5/13/2015  | <1.0                 | <2.0                    | <1.0         | 0.18J       | <2.0 | <0.6                | <2.0             | <2.0                    | <2.0               |
|           |                      | 12/16/2014 | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|           |                      | 11/10/2014 | <5.0                 | <5.0                    | <5.0         | NS          | NS   | <5.0                | <5.0             | <5.0                    | <5.0               |
|           |                      | 9/3/2014   | <5.0                 | <5.0                    | <5.0         | NS          | NS   | <5.0                | <5.0             | <5.0                    | <5.0               |
|           |                      | 5/19/2014  | <1.0                 | <1.0                    | <1.0         | NS          | NS   | <0.50               | <1.0             | <1.0                    | <5.0               |
|           |                      | 2/27/2014  | <1.0                 | <1.0                    | <1.0         | NS          | NS   | <0.50               | <1.0             | <1.0                    | <5.0               |
|           |                      | 11/25/2013 | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
|           |                      | 9/5/2013   | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
|           |                      | 5/8/2013   | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
|           |                      | 2/14/2013  | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
|           |                      | 2/14/2013  | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|           |                      | 12/6/2012  | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
|           |                      | 10/9/2012  | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
| 7/10/2012 | <0.5                 | <0.5       | <0.5                 | NS                      | NS           | <0.5        | <0.5 | <0.5                | <0.5             |                         |                    |
| 3/20/2012 | <0.5                 | <0.5       | <0.5                 | NS                      | NS           | <0.5        | <0.5 | <0.5                | <0.5             |                         |                    |
| MW 3S     |                      | 2/14/2013  | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|           |                      | 12/6/2012  | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
| MW 4D     |                      | 10/27/2014 | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|           |                      | 2/14/2013  | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|           |                      | 12/6/2012  | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
| MW 4S     | Annual               | 11/24/2015 | <1.0                 | <2.0                    | <1.0         | 2.0         | <2.0 | <0.6                | <2.0             | 0.44J                   | <2.0               |
|           |                      | 12/16/2014 | <1.0                 | <2.0                    | <1.0         | 1.9J        | <2.0 | <0.6                | <2.0             | 0.31J                   | <2.0               |
|           |                      | 10/27/2014 | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
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NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* Residential samples will be tested for all VOCs during 2nd quarter of the year.



| Property          | LMP Sample Frequency | Date       | Dichlorobromomethane | Dichlorodifluoromethane | Ethylbenzene | Ethyl Ether | ETBE | Hexachlorobutadiene | Isopropylbenzene | Methyl tert-butyl ether | Methylene Chloride |
|-------------------|----------------------|------------|----------------------|-------------------------|--------------|-------------|------|---------------------|------------------|-------------------------|--------------------|
| MW 4S             | Annual               | 12/18/2013 | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
|                   |                      | 2/14/2013  | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                   |                      | 12/6/2012  | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
|                   |                      | 7/10/2012  | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
| MW 5D             |                      | 10/27/2014 | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                   |                      | 2/14/2013  | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                   |                      | 12/5/2012  | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
| MW 5S             | Annual               | 11/24/2015 | <1.0                 | <2.0                    | <1.0         | 2.6         | <2.0 | <0.6                | <2.0             | 0.46J                   | <2.0               |
|                   |                      | 12/16/2014 | <1.0                 | <2.0                    | <1.0         | 2.4         | <2.0 | <0.6                | <2.0             | 0.32J                   | <2.0               |
|                   |                      | 10/27/2014 | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                   |                      | 12/18/2013 | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
|                   |                      | 2/14/2013  | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                   |                      | 12/5/2012  | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
|                   |                      | 7/10/2012  | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
| MW 7              |                      | 10/27/2014 | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      |                    |
| MW 8              | Annual               | 11/24/2015 | <1.0                 | <2.0                    | <1.0         | 0.42J       | <2.0 | <0.6                | <2.0             | <2.0                    | <2.0               |
|                   |                      | 12/16/2014 | <1.0                 | <2.0                    | <1.0         | 0.39J       | <2.0 | <0.6                | <2.0             | <2.0                    | <2.0               |
|                   |                      | 12/18/2013 | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
|                   |                      | 3/14/2013  | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                   |                      | 12/7/2012  | <0.5                 | <0.5                    | <0.5         | NS          | NS   | <0.5                | <0.5             | <0.5                    | <0.5               |
| MW 21S            | Semi-Annual          | 11/10/2015 | <1.0                 | <2.0                    | <1.0         | <2.0        | <2.0 | <0.60               | <2.0             | 0.61J                   | <2.0               |
| DPW WELL          | Annual               | 11/24/2015 | <1.0                 | <2.0                    | <1.0         | <2.0        | <2.0 | <0.6                | <2.0             | <2.0                    | <2.0               |
|                   |                      | 12/16/2014 | <1.0                 | <2.0                    | <1.0         | <2.0        | <2.0 | <0.6                | <2.0             | <2.0                    | <2.0               |
| 265 ALSTON AVENUE | Annual               | 4/1/2015   | <1.0                 | <2.0                    | <1.0         | <2.0        | <2.0 | <0.60               | <2.0             | 0.54J                   | <2.0               |
|                   |                      | 3/28/2014  | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                   |                      | 12/18/2013 | <0.50                | <0.50                   | <0.50        | NS          | NS   | <0.50               | <0.50            | 0.26J                   | <0.50              |
|                   |                      | 3/14/2013  | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                   |                      | 12/6/2012  | <0.50                | <0.50                   | <0.50        | NS          | NS   | <0.50               | <0.50            | <0.50                   | <0.50              |
|                   |                      | 6/21/2012  | <0.50                | <0.50                   | <0.50        | NS          | NS   | <0.50               | <0.50            | <0.50                   | <0.50              |
| 280 ALSTON AVENUE | Annual               | 5/13/2015  | <1.0                 | <2.0                    | <1.0         | <2.0        | <2.0 | <0.60               | <2.0             | <2.0                    | <2.0               |
|                   |                      | 12/17/2014 | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                   |                      | 12/18/2013 | <0.50                | <0.50                   | <0.50        | NS          | NS   | <0.50               | <0.50            | <0.50                   | <0.50              |
|                   |                      | 2/22/2013  | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                   |                      | 12/6/2012  | <0.50                | <0.50                   | <0.50        | NS          | NS   | <0.50               | <0.50            | <0.50                   | <0.50              |
|                   |                      | 6/21/2012  | <0.50                | <0.50                   | <0.50        | NS          | NS   | <0.50               | <0.50            | <0.50                   | <0.50              |
| 125 MEETINGHOUSE  | Annual               | 5/8/2013   | <0.50                | <0.50                   | <0.50        | NS          | NS   | <0.50               | <0.50            | <0.50                   |                    |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
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NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* Residential samples will be tested for all VOCs during 2nd quarter of the year.



| Property         | LMP Sample Frequency | Date       | Dichlorobromomethane | Dichlorodifluoromethane | Ethylbenzene | Ethyl Ether | ETBE | Hexachlorobutadiene | Isopropylbenzene | Methyl tert-butyl ether | Methylene Chloride |
|------------------|----------------------|------------|----------------------|-------------------------|--------------|-------------|------|---------------------|------------------|-------------------------|--------------------|
| 125 MEETINGHOUSE | Annual               | 6/21/2012  | <0.50                | <0.50                   | <0.50        | NS          | NS   | <0.50               | <0.50            | <0.50                   | <0.50              |
| 170 MEETINGHOUSE | Annual               | 5/13/2015  | <1.0                 | <2.0                    | <1.0         | <2.0        | <2.0 | <0.60               | <2.0             | 0.21J                   | <2.0               |
|                  |                      | 8/15/2014  | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                  |                      | 2/15/2013  | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                  |                      | 12/8/2012  | <0.50                | <0.50                   | <0.50        | NS          | NS   | <0.50               | <0.50            | <0.50                   | <0.50              |
| 75 OLD ORCHARD   | Annual               | 8/15/2014  | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                  |                      | 2/21/2013  | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                  |                      | 12/6/2012  | <0.50                | <0.50                   | <0.50        | NS          | NS   | <0.50               | <0.50            | <0.50                   | <0.50              |
|                  |                      | 6/21/2012  | <0.50                | <0.50                   | <0.50        | NS          | NS   | <0.50               | <0.50            | <0.50                   | <0.50              |
| 130 OLD ORCHARD  | Annual               | 12/6/2012  | <0.50                | <0.50                   | <0.50        | NS          | NS   | <0.50               | <0.50            | <0.50                   | <0.50              |
|                  |                      | 6/21/2012  | <0.50                | <0.50                   | <0.50        | NS          | NS   | <0.50               | <0.50            | <0.50                   | <0.50              |
| 130A OLD ORCHARD | Annual               | 5/29/2015  | <1.0                 | <2.0                    | <1.0         | <2.0        | <2.0 | <0.6                | <2.0             | <2.0                    | <2.0               |
|                  |                      | 12/17/2014 | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                  |                      | 12/18/2013 | <0.50                | <0.50                   | <0.50        | NS          | NS   | <0.50               | <0.50            | <0.50                   | <0.50              |
|                  |                      | 2/25/2013  | <0.50                | <0.50                   | <0.50        | NS          | NS   | <0.50               | <0.50            | <0.50                   | <0.50              |
| 130B OLD ORCHARD | Annual               | 5/29/2015  | <1.0                 | <2.0                    | <1.0         | <2.0        | <2.0 | <0.6                | <2.0             | <2.0                    | <2.0               |
|                  |                      | 12/17/2014 | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                  |                      | 12/18/2013 | <0.50                | <0.50                   | <0.50        | NS          | NS   | <0.50               | <0.50            | <0.50                   | <0.50              |
|                  |                      | 2/25/2013  | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
| 210 OLD ORCHARD  | Annual               | 12/18/2013 | <0.50                | <0.50                   | <0.50        | NS          | NS   | <0.50               | <0.50            | 1.1                     | <0.50              |
|                  |                      | 2/15/2013  | NS                   | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                  |                      | 12/6/2012  | <0.50                | <0.50                   | <0.50        | NS          | NS   | <0.50               | <0.50            | <0.50                   | <0.50              |
|                  |                      | 6/21/2012  | <0.50                | <0.50                   | <0.50        | NS          | NS   | <0.50               | <0.50            | <0.50                   | <0.50              |
| 290 OLD ORCHARD  | Annual               | 3/2/2015   | Inf.                 | <1.0                    | <2.0         | <1.0        | <2.0 | <2.0                | <0.60            | <2.0                    | <2.0               |
|                  |                      | 3/2/2015   | Eff.                 | <1.0                    | <2.0         | <1.0        | <2.0 | <2.0                | <0.60            | <2.0                    | <2.0               |
|                  |                      | 7/23/2014  |                      | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                  |                      | 5/16/2013  |                      | NS                      | NS           | NS          | NS   | NS                  | NS               | NS                      | NS                 |
|                  |                      | 5/9/2013   |                      | <0.50                   | <0.50        | <0.50       | NS   | NS                  | <0.50            | <0.50                   | <0.50              |
|                  |                      | 2/15/2013  |                      | <0.50                   | <0.50        | <0.50       | NS   | NS                  | <0.50            | <0.50                   | <0.50              |
|                  |                      | 6/21/2012  |                      | <0.50                   | <0.50        | <0.50       | NS   | NS                  | <0.50            | <0.50                   | <0.50              |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
ORSG-Office of Research and Standards Guideline  
NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
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Report: GW VOC 6  
Datebase: Eastham Landfill Monitoring



**TABLE 4.1**  
**SECTION 7**  
**SUMMARY OF LANDFILL MONITORING PLAN**  
**GROUNDWATER ANALYTICAL RESULTS**  
**Volatile Organic Compounds**  
**Eastham Landfill Monitoring Wells and Private Drinking Wells**  
**Eastham, MA**  
**(All results in ug/l)**

| Property         | LMP Sample Frequency | Date       | Isopropyl Ether | Naphthalene | n-Butylbenzene | N-Propylbenzene | sec-Butylbenzene | Styrene | tert-Butylbenzene | Tetrachloroethene | Toluene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene |
|------------------|----------------------|------------|-----------------|-------------|----------------|-----------------|------------------|---------|-------------------|-------------------|---------|--------------------------|---------------------------|
| <b>Standards</b> |                      |            |                 |             |                |                 |                  |         |                   |                   |         |                          |                           |
| GW1              |                      |            | NA              | 140         | NA             | NA              | NA               | 100     | NA                | 5                 | 1000    | 100                      | NA                        |
| GW3              |                      |            | NA              | 20000       | NA             | NA              | NA               | 6000    | NA                | 30000             | 40000   | 50000                    | NA                        |
| MMCL             |                      |            | NA              | NA          | NA             | NA              | NA               | 100     | NA                | 5                 | 1000    | 100                      | NA                        |
| ORSG             |                      |            | NA              | 140         | NA             | NA              | NA               | NA      | NA                | NA                | NA      | NA                       | NA                        |
| <b>Results</b>   |                      |            |                 |             |                |                 |                  |         |                   |                   |         |                          |                           |
| MW 10            |                      | 10/27/2014 | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
| MW 21D           |                      | 10/27/2014 | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                  |                      | 2/25/2013  | NS              | <5.0        | <1.0           | <1.0            | <1.0             | <1.0    | <1.0              | <1.0              | <1.0    | <1.0                     | < 0.40                    |
| MW 21S           | Semi-Annual          | 5/13/2015  | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.50                     |
|                  |                      | 10/27/2014 | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                  |                      | 5/16/2013  | NS              | <5.0        | <1.0           | <1.0            | <1.0             | <1.0    | <1.0              | <1.0              | <1.0    | <1.0                     | < 0.40                    |
|                  |                      | 12/7/2012  | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      |
| MW 2D            |                      | 2/14/2013  | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                  |                      | 12/6/2012  | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      |
| MW 2S            | Annual               | 11/24/2015 | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |
|                  |                      | 12/16/2014 | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |
|                  |                      | 12/18/2013 | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      |
|                  |                      | 2/14/2013  | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                  |                      | 12/6/2012  | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      |
|                  |                      | 7/10/2012  | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      |
| MW 3D            | Quarterly            | 2/23/2016  | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |
|                  |                      | 11/24/2015 | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |
|                  |                      | 8/26/2015  | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |
|                  |                      | 5/13/2015  | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |

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MMCL-Massachusetts Max. Contaminant Level  
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\* Residential samples will be tested for all VOCs during 2nd quarter of the year.



| Property  | LMP Sample Frequency | Date       | Isopropyl Ether | Naphthalene | n-Butylbenzene | N-Propylbenzene | sec-Butylbenzene | Styrene | tert-Butylbenzene | Tetrachloroethene | Toluene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene |       |
|-----------|----------------------|------------|-----------------|-------------|----------------|-----------------|------------------|---------|-------------------|-------------------|---------|--------------------------|---------------------------|-------|
| MW 3D     | Quarterly            | 11/10/2014 | NS              | <5.0        | <5.0           | <5.0            | <5.0             | <5.0    | <5.0              | <5.0              | <5.0    | <5.0                     | <5.0                      |       |
|           |                      | 11/10/2014 | Duplicate       | NS          | <5.0           | <5.0            | <5.0             | <5.0    | <5.0              | <5.0              | <5.0    | <5.0                     | <5.0                      | <5.0  |
|           |                      | 10/27/2014 | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        | NS    |
|           |                      | 9/3/2014   | NS              | <5.0        | <5.0           | <5.0            | <5.0             | <5.0    | <5.0              | <5.0              | <5.0    | <5.0                     | <5.0                      | <5.0  |
|           |                      | 5/19/2014  | NS              | <1.0        | <1.0           | <1.0            | <1.0             | <1.0    | <1.0              | <1.0              | <1.0    | <1.0                     | <1.0                      | <0.50 |
|           |                      | 2/27/2014  | NS              | <1.0        | <1.0           | <1.0            | <1.0             | <1.0    | <1.0              | <1.0              | <1.0    | <1.0                     | <1.0                      | <0.50 |
|           |                      | 11/25/2013 | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      | <0.5  |
|           |                      | 9/5/2013   | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      | <0.5  |
|           |                      | 5/8/2013   | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      | <0.5  |
|           |                      | 2/14/2013  | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      | <0.5  |
|           |                      | 12/6/2012  | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      | <0.5  |
|           |                      | 10/9/2012  | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      | <0.5  |
|           |                      | 7/10/2012  | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      | <0.5  |
|           |                      | 3/20/2012  | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      | <0.5  |
| MW 3I     | Quarterly            | 2/23/2016  | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |       |
|           |                      | 11/24/2015 | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |       |
|           |                      | 8/26/2015  | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |       |
|           |                      | 5/13/2015  | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |       |
|           |                      | 12/16/2014 | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |       |
|           |                      | 11/10/2014 | NS              | <5.0        | <5.0           | <5.0            | <5.0             | <5.0    | <5.0              | <5.0              | <5.0    | <5.0                     | <5.0                      |       |
|           |                      | 9/3/2014   | NS              | <5.0        | <5.0           | <5.0            | <5.0             | <5.0    | <5.0              | <5.0              | <5.0    | <5.0                     | <5.0                      |       |
|           |                      | 5/19/2014  | NS              | <1.0        | <1.0           | <1.0            | <1.0             | <1.0    | <1.0              | <1.0              | <1.0    | <1.0                     | <1.0                      | <0.50 |
|           |                      | 2/27/2014  | NS              | <1.0        | <1.0           | <1.0            | <1.0             | <1.0    | <1.0              | <1.0              | <1.0    | <1.0                     | <1.0                      | <0.50 |
|           |                      | 11/25/2013 | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      | <0.5  |
|           |                      | 9/5/2013   | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      | <0.5  |
|           |                      | 5/8/2013   | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      | <0.5  |
|           |                      | 2/14/2013  | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      | <0.5  |
|           |                      | 2/14/2013  | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        | NS    |
| 12/6/2012 | NS                   | <0.5       | <0.5            | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     |                           |       |
| 10/9/2012 | NS                   | <0.5       | <0.5            | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     |                           |       |
| 7/10/2012 | NS                   | <0.5       | <0.5            | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     |                           |       |
| 3/20/2012 | NS                   | <0.5       | <0.5            | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     |                           |       |
| MW 3S     |                      | 2/14/2013  | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |       |
|           |                      | 12/6/2012  | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      |       |
| MW 4D     |                      | 10/27/2014 | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |       |
|           |                      | 2/14/2013  | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |       |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
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ORSG-Office of Research and Standards Guideline  
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J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* Residential samples will be tested for all VOCs during 2nd quarter of the year.

| Property          | LMP Sample Frequency | Date       | Isopropyl Ether | Naphthalene | n-Butylbenzene | N-Propylbenzene | sec-Butylbenzene | Styrene | tert-Butylbenzene | Tetrachloroethene | Toluene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene |
|-------------------|----------------------|------------|-----------------|-------------|----------------|-----------------|------------------|---------|-------------------|-------------------|---------|--------------------------|---------------------------|
| MW 4D             |                      | 12/6/2012  | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      |
| MW 4S             | Annual               | 11/24/2015 | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |
|                   |                      | 12/16/2014 | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |
|                   |                      | 10/27/2014 | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                   |                      | 12/18/2013 | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      |
|                   |                      | 2/14/2013  | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                   |                      | 12/6/2012  | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      |
|                   |                      | 7/10/2012  | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      |
| MW 5D             |                      | 10/27/2014 | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                   |                      | 2/14/2013  | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                   |                      | 12/5/2012  | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      |
| MW 5S             | Annual               | 11/24/2015 | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |
|                   |                      | 12/16/2014 | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |
|                   |                      | 10/27/2014 | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                   |                      | 12/18/2013 | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      |
|                   |                      | 2/14/2013  | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                   |                      | 12/5/2012  | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      |
|                   |                      | 7/10/2012  | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      |
| MW 7              |                      | 10/27/2014 | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       |                           |
| MW 8              | Annual               | 11/24/2015 | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |
|                   |                      | 12/16/2014 | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |
|                   |                      | 12/18/2013 | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      |
|                   |                      | 3/14/2013  | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                   |                      | 12/7/2012  | NS              | <0.5        | <0.5           | <0.5            | <0.5             | <0.5    | <0.5              | <0.5              | <0.5    | <0.5                     | <0.5                      |
| MW 21S            | Semi-Annual          | 11/10/2015 | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | 0.31J   | <1.0                     | <0.50                     |
| DPW WELL          | Annual               | 11/24/2015 | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |
|                   |                      | 12/16/2014 | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |
| 265 ALSTON AVENUE | Annual               | 4/1/2015   | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.50                     |
|                   |                      | 3/28/2014  | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                   |                      | 12/18/2013 | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
|                   |                      | 3/14/2013  | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                   |                      | 12/6/2012  | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
|                   |                      | 6/21/2012  | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
| 280 ALSTON AVENUE | Annual               | 5/13/2015  | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.50                     |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
ORSG-Office of Research and Standards Guideline  
NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* Residential samples will be tested for all VOCs during 2nd quarter of the year.

| Property              | LMP Sample Frequency | Date       | Isopropyl Ether | Naphthalene | n-Butylbenzene | N-Propylbenzene | sec-Butylbenzene | Styrene | tert-Butylbenzene | Tetrachloroethene | Toluene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene |
|-----------------------|----------------------|------------|-----------------|-------------|----------------|-----------------|------------------|---------|-------------------|-------------------|---------|--------------------------|---------------------------|
| 280 ALSTON AVENUE     | Annual               | 12/17/2014 | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                       |                      | 12/18/2013 | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
|                       |                      | 2/22/2013  | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                       |                      | 12/6/2012  | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
|                       |                      | 6/21/2012  | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
| 125 MEETINGHOUSE ROAD | Annual               | 5/8/2013   | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
|                       |                      | 6/21/2012  | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
| 170 MEETINGHOUSE ROAD | Annual               | 5/13/2015  | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.50                     |
|                       |                      | 8/15/2014  | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                       |                      | 2/15/2013  | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                       |                      | 12/8/2012  | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
| 75 OLD ORCHARD ROAD   | Annual               | 8/15/2014  | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                       |                      | 2/21/2013  | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                       |                      | 12/6/2012  | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
|                       |                      | 6/21/2012  | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
| 130 OLD ORCHARD ROAD  | Annual               | 12/6/2012  | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
|                       |                      | 6/21/2012  | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
| 130A OLD ORCHARD ROAD | Annual               | 5/29/2015  | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |
|                       |                      | 12/17/2014 | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                       |                      | 12/18/2013 | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
|                       |                      | 2/25/2013  | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
| 130B OLD ORCHARD ROAD | Annual               | 5/29/2015  | <2.0            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.5                      |
|                       |                      | 12/17/2014 | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                       |                      | 12/18/2013 | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
|                       |                      | 2/25/2013  | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
| 210 OLD ORCHARD ROAD  | Annual               | 12/18/2013 | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
|                       |                      | 2/15/2013  | NS              | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                       |                      | 12/6/2012  | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
|                       |                      | 6/21/2012  | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
| 290 OLD ORCHARD ROAD  | Annual               | 3/2/2015   | Inf.            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.50                     |
|                       |                      | 3/2/2015   | Eff.            | <2.0        | <2.0           | <2.0            | <2.0             | <1.0    | <2.0              | <1.0              | <1.0    | <1.0                     | <0.50                     |
|                       |                      | 7/23/2014  |                 | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                       |                      | 5/16/2013  |                 | NS          | NS             | NS              | NS               | NS      | NS                | NS                | NS      | NS                       | NS                        |
|                       |                      | 5/9/2013   |                 | NS          | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
ORSG-Office of Research and Standards Guideline  
NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* Residential samples will be tested for all VOCs during 2nd quarter of the year.



| Property             | LMP Sample Frequency | Date      | Isopropyl Ether | Naphthalene | n-Butylbenzene | N-Propylbenzene | sec-Butylbenzene | Styrene | tert-Butylbenzene | Tetrachloroethene | Toluene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene |
|----------------------|----------------------|-----------|-----------------|-------------|----------------|-----------------|------------------|---------|-------------------|-------------------|---------|--------------------------|---------------------------|
| 290 OLD ORCHARD ROAD | Annual               | 2/15/2013 | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |
|                      |                      | 6/21/2012 | NS              | <0.50       | <0.50          | <0.50           | <0.50            | <0.50   | <0.50             | <0.50             | <0.50   | <0.50                    | <0.50                     |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
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NS - Not Sampled  
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3/9/2016 Page 5 of 5  
Report: GW VOC 7  
Datebase: Eastham Landfill Monitoring



**TABLE 4.1**  
**SECTION 8**  
**SUMMARY OF LANDFILL MONITORING PLAN**  
**GROUNDWATER ANALYTICAL RESULTS**  
**Volatile Organic Compounds**  
**Eastham Landfill Monitoring Wells and Private Drinking Wells**  
**Eastham, MA**  
**(All results in ug/l)**

| Property         | LMP Sample Frequency | Date       | TAME      | Tetrahydrofuran | Trichloroethene | Trichlorofluoromethane | Vinyl chloride | Total Xylenes |
|------------------|----------------------|------------|-----------|-----------------|-----------------|------------------------|----------------|---------------|
| <b>Standards</b> |                      |            |           |                 |                 |                        |                |               |
| GW1              |                      |            | NA        | NA              | 5               | NA                     | 2              | 10000         |
| GW3              |                      |            | NA        | NA              | 5000            | NA                     | 50000          | 5000          |
| MMCL             |                      |            | NA        | NA              | 5               | NA                     | 2              | 10000         |
| ORSG             |                      |            | NA        | NA              | NA              | NA                     | NA             | NA            |
| <b>Results</b>   |                      |            |           |                 |                 |                        |                |               |
| MW 10            |                      | 10/27/2014 | NS        | NS              | NS              | NS                     | NS             | NS            |
| MW 21D           |                      | 10/27/2014 | NS        | NS              | NS              | NS                     | NS             | NS            |
|                  |                      | 2/25/2013  | NS        | NS              | <1.0            | <1.0                   | <0.50          | <2.0          |
| MW 21S           | Semi-Annual          | 5/13/2015  | <2.0      | 0.90J           | <1.0            | <2.0                   | <1.0           | <1.0          |
|                  |                      | 10/27/2014 | NS        | NS              | NS              | NS                     | NS             | NS            |
|                  |                      | 5/16/2013  | NS        | NS              | <1.0            | <1.0                   | <1.0           | <2.0          |
|                  |                      | 12/7/2012  | NS        | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
| MW 2D            |                      | 2/14/2013  | NS        | NS              | NS              | NS                     | NS             | NS            |
|                  |                      | 12/6/2012  | NS        | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
| MW 2S            | Annual               | 11/24/2015 | <2.0      | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |
|                  |                      | 12/16/2014 | <2.0      | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |
|                  |                      | 12/18/2013 | NS        | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
|                  |                      | 2/14/2013  | NS        | NS              | NS              | NS                     | NS             | NS            |
|                  |                      | 12/6/2012  | NS        | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
|                  |                      | 7/10/2012  | NS        | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
| MW 3D            | Quarterly            | 2/23/2016  | <2.0      | 0.59J           | <1.0            | <2.0                   | 0.27J          | <1.0          |
|                  |                      | 11/24/2015 | <2.0      | <2.0            | <1.0            | <2.0                   | 0.20J          | <1.0          |
|                  |                      | 8/26/2015  | <2.0      | 1.1 J           | <1.0            | <2.0                   | 0.28 J         | <1.0          |
|                  |                      | 5/13/2015  | <2.0      | 1.2J            | <1.0            | <2.0                   | 0.37J          | <1.0          |
|                  |                      | 11/10/2014 | NS        | NS              | <5.0            | <5.0                   | <5.0           | <5.0          |
|                  |                      | 11/10/2014 | Duplicate | NS              | NS              | <5.0                   | <5.0           | <5.0          |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
ORSG-Office of Research and Standards Guideline  
NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* Residential samples will be tested for all VOCs during 2nd quarter of the year.



| Property  | LMP Sample Frequency | Date       | TAME | Tetrahydrofuran | Trichloroethene | Trichlorofluoromethane | Vinyl chloride | Total Xylenes |
|-----------|----------------------|------------|------|-----------------|-----------------|------------------------|----------------|---------------|
| MW 3D     | Quarterly            | 10/27/2014 | NS   | NS              | NS              | NS                     | NS             | NS            |
|           |                      | 9/3/2014   | NS   | NS              | <5.0            | <5.0                   | <5.0           | <5.0          |
|           |                      | 5/19/2014  | NS   | NS              | <1.0            | <1.0                   | <1.0           | <1.0          |
|           |                      | 2/27/2014  | NS   | NS              | <1.0            | <1.0                   | <1.0           | <1.0          |
|           |                      | 11/25/2013 | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
|           |                      | 9/5/2013   | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
|           |                      | 5/8/2013   | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
|           |                      | 2/14/2013  | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
|           |                      | 12/6/2012  | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
|           |                      | 10/9/2012  | NS   | NS              | <0.5            | <0.5                   | 0.58           | <0.5          |
|           |                      | 7/10/2012  | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
|           |                      | 3/20/2012  | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
| MW 3I     | Quarterly            | 2/23/2016  | <2.0 | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |
|           |                      | 11/24/2015 | <2.0 | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |
|           |                      | 8/26/2015  | <2.0 | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |
|           |                      | 5/13/2015  | <2.0 | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |
|           |                      | 12/16/2014 | NS   | NS              | NS              | NS                     | NS             | NS            |
|           |                      | 11/10/2014 | NS   | NS              | <5.0            | <5.0                   | <5.0           | <5.0          |
|           |                      | 9/3/2014   | NS   | NS              | <5.0            | <5.0                   | <5.0           | <5.0          |
|           |                      | 5/19/2014  | NS   | NS              | <1.0            | <1.0                   | <1.0           | <1.0          |
|           |                      | 2/27/2014  | NS   | NS              | <1.0            | <1.0                   | <1.0           | <1.0          |
|           |                      | 11/25/2013 | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
|           |                      | 9/5/2013   | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
|           |                      | 5/8/2013   | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
|           |                      | 2/14/2013  | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
|           |                      | 2/14/2013  | NS   | NS              | NS              | NS                     | NS             | NS            |
|           |                      | 12/6/2012  | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
| 10/9/2012 | NS                   | NS         | <0.5 | <0.5            | <0.5            | <0.5                   |                |               |
| 7/10/2012 | NS                   | NS         | <0.5 | <0.5            | <0.5            | <0.5                   |                |               |
| 3/20/2012 | NS                   | NS         | <0.5 | <0.5            | <0.5            | <0.5                   |                |               |
| MW 3S     |                      | 2/14/2013  | NS   | NS              | NS              | NS                     | NS             | NS            |
|           |                      | 12/6/2012  | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
| MW 4D     |                      | 10/27/2014 | NS   | NS              | NS              | NS                     | NS             | NS            |
|           |                      | 2/14/2013  | NS   | NS              | NS              | NS                     | NS             | NS            |
|           |                      | 12/6/2012  | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
| MW 4S     | Annual               | 11/24/2015 | <2.0 | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |
|           |                      | 12/16/2014 | <2.0 | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |
|           |                      | 10/27/2014 | NS   | NS              | NS              | NS                     | NS             | NS            |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
ORSG-Office of Research and Standards Guideline  
NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* Residential samples will be tested for all VOCs during 2nd quarter of the year.



| Property              | LMP Sample Frequency | Date       | TAME | Tetrahydrofuran | Trichloroethene | Trichlorofluoromethane | Vinyl chloride | Total Xylenes |
|-----------------------|----------------------|------------|------|-----------------|-----------------|------------------------|----------------|---------------|
| MW 4S                 | Annual               | 12/18/2013 | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
|                       |                      | 2/14/2013  | NS   | NS              | NS              | NS                     | NS             | NS            |
|                       |                      | 12/6/2012  | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
|                       |                      | 7/10/2012  | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
| MW 5D                 |                      | 10/27/2014 | NS   | NS              | NS              | NS                     | NS             | NS            |
|                       |                      | 2/14/2013  | NS   | NS              | NS              | NS                     | NS             | NS            |
|                       |                      | 12/5/2012  | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
| MW 5S                 | Annual               | 11/24/2015 | <2.0 | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |
|                       |                      | 12/16/2014 | <2.0 | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |
|                       |                      | 10/27/2014 | NS   | NS              | NS              | NS                     | NS             | NS            |
|                       |                      | 12/18/2013 | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
|                       |                      | 2/14/2013  | NS   | NS              | NS              | NS                     | NS             | NS            |
|                       |                      | 12/5/2012  | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
|                       |                      | 7/10/2012  | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
| MW 7                  |                      | 10/27/2014 | NS   | NS              | NS              | NS                     | NS             |               |
| MW 8                  | Annual               | 11/24/2015 | <2.0 | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |
|                       |                      | 12/16/2014 | <2.0 | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |
|                       |                      | 12/18/2013 | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
|                       |                      | 3/14/2013  | NS   | NS              | NS              | NS                     | NS             | NS            |
|                       |                      | 12/7/2012  | NS   | NS              | <0.5            | <0.5                   | <0.5           | <0.5          |
| MW 21S                | Semi-Annual          | 11/10/2015 | <2.0 | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |
| DPW WELL              | Annual               | 11/24/2015 | <2.0 | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |
|                       |                      | 12/16/2014 | <2.0 | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |
| 265 ALSTON AVENUE     | Annual               | 4/1/2015   | <2.0 | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |
|                       |                      | 3/28/2014  | NS   | NS              | NS              | NS                     | NS             | NS            |
|                       |                      | 12/18/2013 | NS   | NS              | <0.50           | <0.50                  | <0.50          | <1.0          |
|                       |                      | 3/14/2013  | NS   | NS              | NS              | NS                     | NS             | NS            |
|                       |                      | 12/6/2012  | NS   | NS              | <0.50           | <0.50                  | <0.50          | <0.50         |
|                       |                      | 6/21/2012  | NS   | NS              | <0.50           | <0.50                  | <0.50          | <0.50         |
| 280 ALSTON AVENUE     | Annual               | 5/13/2015  | <2.0 | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |
|                       |                      | 12/17/2014 | NS   | NS              | NS              | NS                     | NS             | NS            |
|                       |                      | 12/18/2013 | NS   | NS              | <0.50           | <0.50                  | <0.50          | <1.0          |
|                       |                      | 2/22/2013  | NS   | NS              | NS              | NS                     | NS             | NS            |
|                       |                      | 12/6/2012  | NS   | NS              | <0.50           | <0.50                  | <0.50          | <0.50         |
|                       |                      | 6/21/2012  | NS   | NS              | <0.50           | <0.50                  | <0.50          | <0.50         |
| 125 MEETINGHOUSE ROAD | Annual               | 5/8/2013   | NS   | NS              | <0.50           | <0.50                  | <0.50          | <1.0          |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
ORSG-Office of Research and Standards Guideline  
NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* Residential samples will be tested for all VOCs during 2nd quarter of the year.



| Property              | LMP Sample Frequency | Date       | TAME | Tetrahydrofuran | Trichloroethene | Trichlorofluoromethane | Vinyl chloride | Total Xylenes |      |
|-----------------------|----------------------|------------|------|-----------------|-----------------|------------------------|----------------|---------------|------|
| 125 MEETINGHOUSE ROAD | Annual               | 6/21/2012  | NS   | NS              | <0.50           | <0.50                  | <0.50          | <0.50         |      |
| 170 MEETINGHOUSE ROAD | Annual               | 5/13/2015  | <2.0 | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |      |
|                       |                      | 8/15/2014  | NS   | NS              | NS              | NS                     | NS             |               |      |
|                       |                      | 2/15/2013  | NS   | NS              | NS              | NS                     | NS             |               |      |
|                       |                      | 12/8/2012  | NS   | NS              | <0.50           | <0.50                  | <0.50          | <0.50         |      |
| 75 OLD ORCHARD ROAD   | Annual               | 8/15/2014  | NS   | NS              | NS              | NS                     | NS             | NS            |      |
|                       |                      | 2/21/2013  | NS   | NS              | NS              | NS                     | NS             |               |      |
|                       |                      | 12/6/2012  | NS   | NS              | <0.50           | <0.50                  | <0.50          | <0.50         |      |
|                       |                      | 6/21/2012  | NS   | NS              | <0.50           | <0.50                  | <0.50          | <0.50         |      |
| 130 OLD ORCHARD ROAD  | Annual               | 12/6/2012  | NS   | NS              | <0.50           | <0.50                  | <0.50          | <0.50         |      |
|                       |                      | 6/21/2012  | NS   | NS              | <0.50           | <0.50                  | <0.50          | <0.50         |      |
| 130A OLD ORCHARD ROAD | Annual               | 5/29/2015  | <2.0 | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |      |
|                       |                      | 12/17/2014 | NS   | NS              | NS              | NS                     | NS             |               |      |
|                       |                      | 12/18/2013 | NS   | NS              | <0.50           | <0.50                  | <0.50          | <1.0          |      |
|                       |                      | 2/25/2013  | NS   | NS              | <0.50           | <0.50                  | <0.50          | <1.0          |      |
| 130B OLD ORCHARD ROAD | Annual               | 5/29/2015  | <2.0 | <2.0            | <1.0            | <2.0                   | <1.0           | <1.0          |      |
|                       |                      | 12/17/2014 | NS   | NS              | NS              | NS                     | NS             |               |      |
|                       |                      | 12/18/2013 | NS   | NS              | <0.50           | <0.50                  | <0.50          | <1.0          |      |
|                       |                      | 2/25/2013  | NS   | NS              | NS              | NS                     | NS             |               |      |
| 210 OLD ORCHARD ROAD  | Annual               | 12/18/2013 | NS   | NS              | <0.50           | <0.50                  | <0.50          | <1.0          |      |
|                       |                      | 2/15/2013  | NS   | NS              | NS              | NS                     | NS             |               |      |
|                       |                      | 12/6/2012  | NS   | NS              | <0.50           | <0.50                  | <0.50          | <0.50         |      |
|                       |                      | 6/21/2012  | NS   | NS              | <0.50           | <0.50                  | <0.50          | <0.50         |      |
| 290 OLD ORCHARD ROAD  | Annual               | 3/2/2015   | Inf. | <2.0            | <2.0            | <1.0                   | <2.0           | <1.0          |      |
|                       |                      | 3/2/2015   | Eff. | <2.0            | <2.0            | <1.0                   | <2.0           | <1.0          |      |
|                       |                      | 7/23/2014  |      | NS              | NS              | NS                     | NS             | NS            |      |
|                       |                      | 5/16/2013  |      | NS              | NS              | NS                     | NS             | NS            |      |
|                       |                      | 5/9/2013   |      | NS              | NS              | <0.50                  | <0.50          | <0.50         | <1.0 |
|                       |                      | 2/15/2013  |      | NS              | NS              | <0.50                  | <0.50          | <0.50         | <1.0 |
|                       |                      | 6/21/2012  |      | NS              | NS              | <0.50                  | <0.50          | <0.50         |      |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
ORSG-Office of Research and Standards Guideline  
NS - Not Sampled

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

B - Analyte detected in Blank and Sample

\* Residential samples will be tested for all VOCs during 2nd quarter of the year.

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Report: GW VOC 8

Datebase: Eastham Landfill Monitoring



**TABLE 4.2  
SUMMARY OF LANDFILL MONITORING PLAN  
GROUNDWATER ANALYTICAL RESULTS**

**Metals  
Eastham Landfill  
Eastham, MA  
(All results in ug/l)**

| Property         | Sample Frequency | Date       | Arsenic   | Barium | Cadmium | Chromium | Copper | Iron  | Lead  | Manganese | Mercury | Selenium | Silver | Zinc |      |
|------------------|------------------|------------|-----------|--------|---------|----------|--------|-------|-------|-----------|---------|----------|--------|------|------|
| <b>Standards</b> |                  |            |           |        |         |          |        |       |       |           |         |          |        |      |      |
| GW-1             |                  |            | 10        | 2000   | 5       | 100      | NA     | NA    | 15    | NA        | 2.0     | 50       | 100    | 5000 |      |
| GW-3             |                  |            | 900       | 50000  | 4       | 300      | NA     | NA    | 10    | NA        | 20      | 100      | 7      | 900  |      |
| MMCL             |                  |            | 10        | 2000   | 5       | 100      | NA     | NA    | 15    | NA        | 2.0     | 50       | NA     | NA   |      |
| SMCL             |                  |            | NA        | NA     | NA      | NA       | 1000   | 300   | NA    | 50        | NA      | NA       | 100    | 5000 |      |
| <b>Results</b>   |                  |            |           |        |         |          |        |       |       |           |         |          |        |      |      |
| MW 2D            |                  | 12/6/2012  | <3.0      | 3.2    | <3.0    | <3.0     | <3.0   | <100  | <3.0  | 51        | <0.5    | <15      | <2.0   | <60  |      |
| MW 2S            | Annual           | 11/24/2015 | <5        | 12     | <4      | 5.5J     | <10    | 440   | <10   | 441       | <0.2    | <10      | <7     | <50  |      |
|                  |                  | 12/16/2014 | 4.7 J     | 9.0 J  | <4.0    | <10      | <10    | 430   | <10   | 311       | <0.2    | <10      | <7.0   | <50  |      |
|                  |                  | 12/18/2013 | <3.0      | 10     | <3.0    | <3.0     | <3.0   | 500   | <3.0  | 410       | <0.3    | <15      | <3.0   | <60  |      |
|                  |                  | 12/6/2012  | <3.0      | 13     | <3.0    | <3.0     | <3.0   | 680   | <3.0  | 430       | <0.5    | <15      | <2.0   | <60  |      |
|                  |                  | 7/10/2012  | <3.0      | 13     | <3.0    | <3.0     | <3.0   | 580   | <3.0  | 390       | <0.5    | <15      | <2.0   | <100 |      |
| MW 3D            | Quarterly        | 2/23/2016  | 69        | 60     | <4      | <10      | <10    | 27000 | <10   | 970       | <0.2    | <10      | <7     | <50  |      |
|                  |                  | 11/24/2015 | 67        | 68     | <4      | 4.8J     | <10    | 30000 | <10   | 1180      | <0.2    | <10      | <7     | <50  |      |
|                  |                  | 8/26/2015  | 66        | 71     | <4.0    | <10      | <10    | 30000 | <10   | 1220      | <1.0    | <10      | <7.0   | 60   |      |
|                  |                  | 5/13/2015  | 70        | 74     | <4.0    | <10      | <10    | 30000 | <10   | 1220      | <0.2    | 6.0 J    | <7.0   | <50  |      |
|                  |                  | 11/10/2014 | 70        | 81     | <3.0    | 5        | <3.0   | 33000 | <3.0  | 1400      | <0.3    | <15      | <2.0   | <60  |      |
|                  |                  | 11/10/2014 | Duplicate | 71     | 82      | <3.0     | 5.2    | <3.0  | 32000 | <3.0      | 1400    | <0.3     | <15    | <2.0 | <60  |
|                  |                  | 9/3/2014   |           | 73     | 86      | <3.0     | 6.0    | <3.0  | 35000 | <3.0      | 1400    | <0.3     | <15    | <2.0 | <60  |
|                  |                  | 5/19/2014  |           | 66     | 82      | <3.0     | <3.0   | <3.0  | 31000 | <3.0      | 1300    | 82       | <15    | <2.0 | <60  |
|                  |                  | 2/27/2014  |           | 54     | 77      | <1.0     | <2.0   | <3.0  | 42000 | <6.0      | 1800    | <0.5     | <6.0   | <2.0 | 12   |
|                  |                  | 11/25/2013 |           | 68     | 88      | <3.0     | 3.3    | <3.0  | 30000 | <3.0      | 1400    | NS       | <15    | <3.0 | <60  |
|                  |                  | 9/5/2013   |           | 64     | 89      | <3.0     | 4.7    | <3.0  | 36000 | <3.0      | 1300    | <0.3     | <15    | <3.0 | <60  |
|                  |                  | 5/8/2013   |           | 74     | 96      | <3.0     | 6.3    | <3.0  | 40000 | <3.0      | 1300    | <0.5     | <15    | <3.0 | <60  |
|                  |                  | 2/14/2013  |           | 68     | 96      | <3.0     | 5.9    | <3.0  | 40000 | <3.0      | 1700    | <0.5     | <15    | <2.0 | <60  |
|                  |                  | 12/6/2012  |           | 62     | 97      | <3.0     | <3.0   | <3.0  | 40000 | <3.0      | 1800    | <0.5     | <15    | <2.0 | <60  |
|                  |                  | 10/9/2012  |           | 65     | 90      | <3.0     | 3.0    | <3.0  | 39000 | <3.0      | 1400    | <0.5     | <15    | <2.0 | <100 |
|                  |                  | 7/10/2012  |           | 66     | 99      | <3.0     | <3.0   | <3.0  | 38000 | <3.0      | 1400    | <0.5     | <15    | <2.0 | <100 |
|                  |                  | 3/20/2012  |           | 69     | 100     | <3.0     | <3.0   | <3.0  | 40000 | <3.0      | 1700    | <0.5     | <15    | <2.0 | <60  |
| MW 3I            | Quarterly        | 2/23/2016  | 43        | 9J     | <4      | <10      | <10    | 56000 | <10   | 1050      | <0.2    | <10      | <7     | 9J   |      |
|                  |                  | 11/24/2015 | 46        | 11     | <4      | 5.3J     | <10    | 68000 | <100  | 1240      | <0.2    | <10      | <7     | <50  |      |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
SMCL-Secondary Max. Contaminant Level  
NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* DPW Well sample was not filtered and results are therefore total metals rather than dissolved.  
\*\* Residential samples will be tested for metals during 2nd quarter of the year.



| Property              | Sample Frequency | Date       | Arsenic   | Barium | Cadmium | Chromium | Copper | Iron  | Lead  | Manganese | Mercury | Selenium | Silver | Zinc   |       |
|-----------------------|------------------|------------|-----------|--------|---------|----------|--------|-------|-------|-----------|---------|----------|--------|--------|-------|
| MW 3I                 | Quarterly        | 8/26/2015  | 44        | 10     | <4.0    | <10      | <10    | 61000 | <10   | 1190      | <1.0    | <10      | <7.0   | 46 J   |       |
|                       |                  | 5/13/2015  | 42        | 9.0 J  | <4.0    | <10      | <10    | 52000 | <10   | 996       | <0.2    | <10      | <7.0   | <50    |       |
|                       |                  | 11/10/2014 | 44        | 11     | <3.0    | <3.0     | <3.0   | 64000 | <3.0  | 1100      | <0.3    | <15      | <2.0   | <60    |       |
|                       |                  | 9/3/2014   | 43        | 10     | <3.0    | <3.0     | <3.0   | 69000 | <3.0  | 1100      | <0.3    | <15      | <2.0   | <60    |       |
|                       |                  | 5/19/2014  | 41        | 11     | <3.0    | <3.0     | <3.0   | 64000 | <3.0  | 1100      | <0.3    | <15      | <2.0   | <60    |       |
|                       |                  | 2/27/2014  | 23        | 10     | 5.0     | <2.0     | <3.0   | 78000 | <6.0  | 1400      | <0.5    | <6.0     | <2.0   | 16     |       |
|                       |                  | 11/25/2013 | <3.0      | 7.1    | <3.0    | <3.0     | <3.0   | 33000 | <3.0  | 1100      | NS      | <15      | <3.0   | <60    |       |
|                       |                  | 9/5/2013   | 38        | 10     | <3.0    | <3.0     | <3.0   | 68000 | <3.0  | 1100      | <0.3    | <15      | <3.0   | <60    |       |
|                       |                  | 5/8/2013   | 37        | 9      | <3.0    | <3.0     | <3.0   | 64000 | <3.0  | 980       | <0.5    | <15      | <3.0   | <60    |       |
|                       |                  | 2/14/2013  | 41        | 12     | <3.0    | <3.0     | <3.0   | 69000 | <3.0  | 1100      | <0.5    | <15      | <2.0   | <60    |       |
|                       |                  | 12/6/2012  | 39        | 11     | <3.0    | <3.0     | <3.0   | 72000 | <3.0  | 1100      | <0.5    | <15      | <2.0   | <60    |       |
|                       |                  | 10/9/2012  | 40        | 11     | <3.0    | <3.0     | <3.0   | 65000 | <3.0  | 1000      | <0.5    | <15      | <2.0   | <100   |       |
|                       |                  | 7/10/2012  | 42        | <3.0   | <3.0    | <3.0     | <3.0   | 68000 | <3.0  | 1100      | <0.5    | <15      | <2.0   | <100   |       |
|                       |                  | 3/20/2012  | 44        | 11     | <3.0    | <3.0     | <3.0   | 65000 | <3.0  | 1400      | <0.5    | <15      | <2.0   | <60    |       |
| MW 3S                 |                  | 12/6/2012  | <3.0      | 30     | <3.0    | <3.0     | <3.0   | 250   | <3.0  | 280       | <0.5    | <15      | <2.0   | <60    |       |
| MW 4D                 |                  | 12/6/2012  | <3.0      | 28     | <3.0    | <3.0     | <3.0   | <100  | <3.0  | 160       | <0.5    | <15      | <2.0   | <60    |       |
| MW 4S                 | Annual           | 11/24/2015 | <5        | 29     | <4      | 4.9J     | <10    | 2800  | <10   | 5010      | <0.2    | <10      | <7     | <50    |       |
|                       |                  | 12/16/2014 | 6.0       | 35     | <4.0    | <10      | <10    | 8700  | <10   | 2690      | <0.2    | <10      | <7.0   | <50    |       |
|                       |                  | 12/18/2013 | <3.0      | 24     | <3.0    | <3.0     | <3.0   | 2100  | <3.0  | 4200      | <0.3    | <15      | <3.0   | <60    |       |
|                       |                  | 12/6/2012  | 3.4       | 28     | <3.0    | <3.0     | <3.0   | 2400  | <3.0  | 5100      | <0.5    | <15      | <2.0   | <60    |       |
|                       |                  | 7/10/2012  | <3.0      | 31     | <3.0    | <3.0     | <3.0   | 2400  | <3.0  | 4400      | <0.5    | <15      | <2.0   | <100   |       |
| MW 5D                 |                  | 12/5/2012  | <3.0      | 64     | <3.0    | <3.0     | <3.0   | <150  | <3.0  | 51        | <0.5    | <15      | <2.0   | <60    |       |
| MW 5S                 | Annual           | 11/24/2015 | <5        | 49     | <4      | 5J       | <10    | 6800  | <10   | 2700      | <0.2    | <10      | <7     | <50    |       |
|                       |                  | 12/16/2014 | <5.0      | 22     | <4.0    | <10      | <10    | 2000  | 2.0 J | 4530      | <0.2    | <10      | <7.0   | <50    |       |
|                       |                  | 12/18/2013 | <3.0      | 37     | <3.0    | <3.0     | <3.0   | 8600  | <3.0  | 3200      | <0.3    | <15      | <3.0   | <60    |       |
|                       |                  | 12/5/2012  | <3.0      | 44     | <3.0    | <3.0     | <3.0   | 5500  | <3.0  | 3600      | <0.5    | <15      | <2.0   | <60    |       |
|                       |                  | 7/10/2012  | <3.0      | 47     | <3.0    | <3.0     | <3.0   | 8500  | <3.0  | 3200      | <0.5    | <15      | <2.0   | <100   |       |
| MW 8                  | Annual           | 12/18/2013 | <3.0      | 35     | <3.0    | <3.0     | <3.0   | <100  | <3.0  | 300       | <0.3    | <15      | <3.0   | <60    |       |
| 265 ALSTON AVENUE     | Annual           | 4/1/2015   | <0.5      | 13.4   | <0.2    | <0.5     | 15.1   | <50   | <0.5  | 3.3       | <0.2    | <1.0     | <0.5   | 8.3    |       |
|                       |                  | 4/1/2015   | Duplicate | NS     | 12.5    | NS       | NS     | 21.9  | NS    | NS        | 3.4     | NS       | NS     | NS     | 6.7   |
|                       |                  | 12/18/2013 |           | 0.11J  | 13B     | <0.50    | 0.43J  | 220B  | NS    | 1.2       | NS      | <0.20    | <1.0   | <0.50  | 39B   |
|                       |                  | 12/6/2012  |           | <3.0   | 13      | <3.0     | <3.0   | 27    | NS    | 3.3       | NS      | <0.5     | <15    | <3.0   | <60   |
|                       |                  | 6/21/2012  |           | <10    | 10      | <1.0     | <2.0   | <100  | <100  | <6.0      | <100    | <0.5     | <6.0   | <2.0   | <100  |
| 280 ALSTON AVENUE     | Annual           | 5/13/2015  | <0.5      | 24.7   | <0.2    | <0.5     | 35.5   | 64    | 0.6   | 20.3      | <0.2    | <1.0     | <0.5   | 60.7   |       |
|                       |                  | 5/13/2015  | Duplicate | NS     | 21.2    | NS       | NS     | 52.7  | 62    | <0.5      | 19.7    | NS       | NS     | NS     | 69.9  |
|                       |                  | 12/18/2013 |           | 0.26J  | 22B     | <0.50    | 0.29J  | 840B  | NS    | 1.9       | NS      | <0.20    | <1.0   | 0.025J | 1200B |
|                       |                  | 12/6/2012  |           | <3.0   | 19      | <3.0     | <3.0   | 1300  | NS    | 5.1       | NS      | <0.5     | <15    | <3.0   | 350   |
|                       |                  | 6/21/2012  |           | <10    | 14      | <1.0     | <2.0   | <100  | <100  | <6.0      | <100    | <0.5     | <6.0   | <2.0   | <100  |
| 125 MEETINGHOUSE ROAD | Annual           | 5/8/2013   | <3.0      | 42     | <3.0    | <3.0     | 25     | NS    | <3.0  | NS        | <0.3    | <15      | <3.0   | <60    |       |
|                       |                  | 6/21/2012  | <10       | 42     | <1.0    | <2.0     | <100   | <100  | <6.0  | 430       | <0.5    | <6.0     | <2.0   | <100   |       |
| 75 OLD ORCHARD ROAD   | Annual           | 12/6/2012  | <3.0      | 9      | <3.0    | <3.0     | 79     | NS    | <3.0  | NS        | <0.5    | <15      | <3.0   | <60    |       |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
SMCL-Secondary Max. Contaminant Level  
NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* DPW Well sample was not filtered and results are therefore total metals rather than dissolved.  
\*\* Residential samples will be tested for metals during 2nd quarter of the year.



| Property              | Sample Frequency | Date       |           | Arsenic | Barium | Cadmium | Chromium | Copper | Iron | Lead  | Manganese | Mercury | Selenium | Silver | Zinc |
|-----------------------|------------------|------------|-----------|---------|--------|---------|----------|--------|------|-------|-----------|---------|----------|--------|------|
| 75 OLD ORCHARD ROAD   | Annual           | 6/21/2012  |           | <10     | 6      | <1.0    | <2.0     | <100   | <100 | <6.0  | <100      | <0.5    | <6.0     | <2.0   | <100 |
| 130 OLD ORCHARD ROAD  |                  | 12/6/2012  |           | <3.0    | 16     | <3.0    | <3.0     | 18     | NS   | <3.0  | NS        | <0.5    | <15      | <3.0   | <60  |
|                       |                  | 6/21/2012  |           | <10     | 12     | <1.0    | <2.0     | <100   | <100 | <6.0  | <100      | <0.5    | <6.0     | <2.0   | <100 |
| 130A OLD ORCHARD ROAD | Annual           | 5/29/2015  |           | <0.5    | 11.4   | <0.2    | <3.0     | 107.4  | <50  | 1.0   | 4.2       | <0.2    | <1.0     | <0.5   | 6.9  |
|                       |                  | 5/29/2015  | Duplicate | NS      | 11.7   | NS      | NS       | 111.7  | NS   | 0.8   | 4.1       | NS      | NS       | NS     | 6.7  |
|                       |                  | 12/18/2013 |           | <1.0    | 16B    | <0.50   | 0.21J    | 180B   | NS   | 0.91J | NS        | <0.20   | <1.0     | 0.037J | 13B  |
| 130B OLD ORCHARD ROAD | Annual           | 5/29/2015  |           | <0.5    | 11.0   | <0.2    | <3.0     | 27.9   | <50  | 0.8   | <1.0      | <0.2    | <1.0     | <0.5   | 9.6  |
|                       |                  | 5/29/2015  | Duplicate | NS      | 11.3   | NS      | NS       | 102.2  | NS   | <0.5  | NS        | NS      | NS       | NS     | 15.4 |
|                       |                  | 12/18/2013 |           | <1.0    | 13B    | <0.50   | 0.074J   | 92B    | NS   | 0.63J | NS        | <0.20   | <1.0     | <0.50  | 16B  |
| 210 OLD ORCHARD ROAD  | Annual           | 12/18/2013 |           | <1.0    | 59B    | <0.50   | <1.5     | 50B    | NS   | 4.1   | NS        | <0.20   | <1.0     | <0.50  | 89B  |
|                       |                  | 12/6/2012  |           | <3.0    | 55     | <3.0    | <3.0     | 18     | NS   | <3.0  | NS        | <0.5    | <15      | <3.0   | <60  |
|                       |                  | 6/21/2012  |           | <10     | 54     | <1.0    | <2.0     | <100   | <100 | <6.0  | 540       | <0.5    | <6.0     | <2.0   | <100 |
| 290 OLD ORCHARD ROAD  | Annual           | 4/1/2015   |           | <0.5    | 38.8   | <0.2    | <0.5     | 64.9   | <50  | <0.5  | 78.1      | <0.2    | <1.0     | <0.5   | 23.9 |
|                       |                  | 4/1/2015   | Duplicate | NS      | 39.3   | NS      | NS       | 65.4   | NS   | NS    | 77.7      | NS      | NS       | NS     | 21.2 |
|                       |                  | 6/21/2012  |           | <10     | 25     | <1.0    | <2.0     | 160    | <100 | <6.0  | <100      | <0.5    | <6.0     | <2.0   | <100 |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
SMCL-Secondary Max. Contaminant Level  
NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.  
B - Analyte detected in Blank and Sample  
\* DPW Well sample was not filtered and results are therefore total metals rather than dissolved.  
\*\* Residential samples will be tested for metals during 2nd quarter of the year.

3/8/2016 Page 3 of 3  
Report: GW Metals  
Datebase: Eastham Landfill Monitoring



**TABLE 4.3  
SUMMARY OF LANDFILL MONITORING PLAN  
GROUNDWATER ANALYTICAL RESULTS  
Inorganic Indicator Parameters**

**Eastham Landfill  
Eastham, MA**

| Property         | Sample Frequency | Date       | Alkalinity<br>mg/L as CaCO | Chloride<br>mg/L | COD<br>mg/L | Total Cyanide<br>mg/L | Nitrate<br>mg/L | Sulfate<br>mg/L | Total Dissolved Solids<br>mg/L |       |
|------------------|------------------|------------|----------------------------|------------------|-------------|-----------------------|-----------------|-----------------|--------------------------------|-------|
| <b>Standards</b> |                  |            |                            |                  |             |                       |                 |                 |                                |       |
| MMCL             |                  |            |                            |                  |             | 0.2                   | 10              |                 |                                |       |
| SMCL             |                  |            |                            | 250              |             |                       |                 | 250             | 500                            |       |
| <b>Results</b>   |                  |            |                            |                  |             |                       |                 |                 |                                |       |
| MW 2D            |                  | 12/6/2012  | 23                         | 22               | <3.0        | NS                    | 0.6             | 6.7             | 81                             |       |
| MW 2S            | Annual           | 11/24/2015 | 139                        | 22               | 10.J        | <0.005                | 0.061J          | 26              | 200                            |       |
|                  |                  | 12/16/2014 | 126                        | 24               | 5.2 J       | <0.005                | <0.100          | 22              | 160                            |       |
|                  |                  | 12/18/2013 | 140                        | 26               | <5.0        | <0.010                | <0.05           | 24              | 310                            |       |
|                  |                  | 12/6/2012  | 150                        | 27               | <3.0        | NS                    | 0.45            | 40              | 280                            |       |
| MW 3D            | Quarterly        | 7/10/2012  | 150                        | 28               | 10          | <0.010                | 0.27            | 36              | 300                            |       |
|                  |                  | 2/23/2016  | 563                        | 64               | 48          | <0.005                | 0.096J          | 52              | 540                            |       |
|                  |                  | 11/24/2015 | 638                        | 64               | 60          | <0.005                | 0.044J          | 59              | 630                            |       |
|                  |                  | 8/26/2015  | 673                        | 70               | 48          | <0.005                | <0.100          | 46              | 600                            |       |
|                  |                  | 5/13/2015  | 669                        | 74               | 77          | <0.005                | <0.500          | 59              | 630                            |       |
|                  |                  | 11/10/2014 | 680                        | 91               | 56          | <0.010                | 1.7             | 58              | 1,200                          |       |
|                  |                  | 11/10/2014 | Duplicate                  | 670              | 91          | 54                    | <0.010          | 1.7             | 57                             | 1,200 |
|                  |                  | 9/3/2014   |                            | 780              | 85          | 50                    | <0.010          | <0.10           | 54                             | 1,200 |
|                  |                  | 5/19/2014  |                            | 830              | 80          | 27                    | <0.010          | <0.10           | 51                             | 1,300 |
|                  |                  | 2/27/2014  |                            | 720              | 86          | 62                    | <0.010          | 8.0             | 35                             | 1,200 |
|                  |                  | 11/25/2013 |                            | 840              | 100         | 50                    | <0.010          | 3.1             | 58                             | 1,200 |
|                  |                  | 9/5/2013   |                            | 870              | 96          | 56                    | <0.010          | <0.10           | 66                             | 2,500 |
|                  |                  | 5/8/2013   |                            | 870              | 100         | 63                    | <0.010          | 0.87            | 68                             | 1,400 |
|                  |                  | 2/14/2013  |                            | 920              | 120         | 70                    | <0.010          | <0.10           | 68                             | 1,600 |
|                  |                  | 12/6/2012  |                            | 960              | 91          | 63                    | NS              | 1.4             | 73                             | 1,700 |
|                  |                  | 10/9/2012  |                            | 960              | 130         | 5.8                   | <0.010          | 6.2             | 70                             | 1,500 |
| 7/10/2012        |                  | 970        | 100                        | 71               | <0.010      | 0.72                  | 67              | 1,700           |                                |       |
| 3/20/2012        |                  | 1,000      | 240                        | 62               | <0.010      | 1.7                   | 68              | 1,500           |                                |       |
| MW 3I            | Quarterly        | 2/23/2016  | 111                        | 10               | 15.J        | <0.005                | 0.155           | 29              | 210                            |       |
|                  |                  | 11/24/2015 | 136                        | 10               | 25          | <0.005                | 0.079J          | 31              | 230                            |       |
|                  |                  | 8/26/2015  | 162                        | 13               | 12.J        | <0.005                | <0.100          | 27              | 200                            |       |
|                  |                  | 5/13/2015  | 149                        | 13               | <20         | <0.005                | <1.0            | 29              | 200                            |       |
|                  |                  | 11/10/2014 | 110                        | 23               | 15          | <0.010                | 1.1             | 25              | 260                            |       |
|                  |                  | 9/3/2014   | 200                        | 20               | 16          | <0.010                | <0.10           | 30              | 300                            |       |
| 5/19/2014        | 200              | 19         | 20                         | <0.010           | <0.10       | 29                    | 300             |                 |                                |       |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
SMCL-Secondary Max. Contaminant Level  
NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.



| Property             | Sample Frequency | Date       | Alkalinity<br>mg/L as CaCO | Chloride<br>mg/L | COD<br>mg/L | Total Cyanide<br>mg/L | Nitrate<br>mg/L | Sulfate<br>mg/L | Total Dissolved Solids<br>mg/L |
|----------------------|------------------|------------|----------------------------|------------------|-------------|-----------------------|-----------------|-----------------|--------------------------------|
| MW 3I                | Quarterly        | 2/27/2014  | 110                        | 17               | 22          | <0.010                | 0.60            | 36              | 300                            |
|                      |                  | 11/25/2013 | 200                        | 16               | 9.0         | <0.010                | 1.4             | 46              | 260                            |
|                      |                  | 9/5/2013   | 190                        | 12               | 13          | <0.010                | <0.10           | 39              | 240                            |
|                      |                  | 5/8/2013   | 160                        | 13               | 7.0         | <0.010                | 0.32            | 49              | 260                            |
|                      |                  | 2/14/2013  | 180                        | 14               | 15          | <0.010                | 0.14            | 70              | 250                            |
|                      |                  | 12/6/2012  | 190                        | 10               | 17          | NS                    | 0.35            | 81              | 290                            |
|                      |                  | 10/9/2012  | 180                        | 12               | <3.0        | <0.010                | <0.10           | 79              | 270                            |
|                      |                  | 7/10/2012  | 180                        | 19               | 18          | <0.010                | 0.19            | 66              | 320                            |
|                      |                  | 3/20/2012  | 180                        | 19               | 15          | <0.010                | 0.42            | 63              | 290                            |
| MW 3S                |                  | 12/6/2012  | 16                         | 10               | <3.0        | NS                    | 3.0             | 10              | 61                             |
| MW 4D                |                  | 12/6/2012  | 16                         | 50               | <3.0        | NS                    | 2.3             | 18              | 140                            |
| MW 4S                | Annual           | 11/24/2015 | 168                        | 18               | 22          | <0.005                | 0.033J          | 15              | <10                            |
|                      |                  | 12/16/2014 | 166                        | 21               | 12 J        | <0.005                | <0.500          | 14              | 190                            |
|                      |                  | 12/18/2013 | 170                        | 20               | 6.0         | <0.010                | <0.05           | 14              | 300                            |
|                      |                  | 12/6/2012  | 180                        | 21               | 14          | NS                    | <0.10           | 22              | 240                            |
|                      |                  | 7/10/2012  | 180                        | 26               | 13          | <0.010                | 0.18            | 20              | 300                            |
| MW 5D                |                  | 12/5/2012  | 23                         | 77               | <3.0        | NS                    | 2.3             | 25              | 230                            |
| MW 5S                | Annual           | 11/24/2015 | 201                        | 25               | 22          | <0.005                | 0.037J          | 22              | 250                            |
|                      |                  | 12/16/2014 | 198                        | 18               | 26          | <0.005                | <0.500          | 20              | 220                            |
|                      |                  | 12/18/2013 | 210                        | 28               | 11          | <0.010                | 0.40            | 22              | 370                            |
|                      |                  | 12/5/2012  | 200                        | 34               | 8.0         | NS                    | 0.45            | 29              | 320                            |
|                      |                  | 7/10/2012  | 220                        | 33               | 12          | <0.010                | 0.28            | 29              | 380                            |
| MW 8                 | Annual           | 12/18/2013 | 110                        | 34               | <2.0        | <0.010                | 1.6             | 16              | 280                            |
| 75 OLD ORCHARD ROAD  |                  | 6/21/2012  | 26                         | 25               | <3.0        | <0.010                | 1.0             | 7.8             | 96                             |
| 130 OLD ORCHARD ROAD |                  | 6/21/2012  | 37                         | 69               | <3.0        | <0.010                | 3.5             | 8.6             | 220                            |
| 180 OLD ORCHARD ROAD |                  | 6/21/2012  | 11                         | 32               | <3.0        | <0.010                | 2.0             | 14              | 120                            |
|                      |                  | 3/23/2012  | NS                         | 35               | <3.0        | <0.010                | 2.0             | 16              | 100                            |
| 210 OLD ORCHARD ROAD |                  | 6/21/2012  | 42                         | 42               | <3.0        | <0.010                | 2.4             | 23              | 170                            |
| 290 OLD ORCHARD ROAD |                  | 6/21/2012  | 17                         | 32               | <3.0        | <0.010                | 3.3             | 14              | 130                            |

Notes: GW-1 and GW-3 MCP Method 1 Standards  
MMCL-Massachusetts Max. Contaminant Level  
SMCL-Secondary Max. Contaminant Level  
NS - Not Sampled  
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.







**BARNSTABLE COUNTY  
DEPARTMENT OF HEALTH AND ENVIRONMENT**

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BARNSTABLE, MASSACHUSETTS 02630

Phone: (508) 375-6613  
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**WATER SAMPLING LOG: EASTHAM LANDFILL**

WELL NUMBER: MW 3I DATE: 2/23/16  
WEATHER: sunny 35 TIME: 1100

**EVACUATION DATA**

DESCRIPTION OF MEASURING POINT: Top of Casing  
DEPTH TO BOTTOM OF WELL: 52.35 DIAMETER OF CASING: 2"  
DEPTH TO WATER IN WELL: 18.77 MATERIAL OF WELL: PVC  
FEET OF WATER IN WELL: 33.58 GALLONS PER FOOT: 0.16  
GALLONS OF WATER IN WELL: 5.37 AMOUNT TO PURGE: 35gal

EVACUATION METHOD: DC Purgible Pump/dedicated bailer/dedicated watterra

**SAMPLING DATA/FIELD PARAMETERS**

COLOR: clear ODOR: - APPEARANCE: -  
PH: 5.57 TEMP: 12.73 COND: 321 DO: 0.57  
OTHER: \_\_\_\_\_

SAMPLING METHOD AND MATERIAL: dedicated bailer/dedicated watterra

All bottles supplied and samples picked up by Alpha Lab. Results sent directly to Environmental Strategies and Management.

REMARKS: \* Field Filtered

SAMPLING PERSONNEL: Lynn K. Mulkeen-BCDHE

**WELL CASING VOLUMES:**

1 1/4"=0.06    1 1/2"=0.09    2"=0.16    2 1/2"=0.26    3"=0.37    3 1/2"=0.50  
4"=0.65    6"=1.47



**BARNSTABLE COUNTY  
DEPARTMENT OF HEALTH AND ENVIRONMENT**

BARNSTABLE COUNTY COMPLEX  
3195 MAIN STREET / PO BOX 427  
BARNSTABLE, MASSACHUSETTS 02630

Phone: (508) 375-6613  
FAX (508) 362-2603  
TDD (508) 362-5885

**WATER SAMPLING LOG: EASTHAM LANDFILL**

WELL NUMBER: mw 3D DATE: 2/23/16  
WEATHER: sunny 35 TIME: 1100

**EVACUATION DATA**

DESCRIPTION OF MEASURING POINT: Top of Casing  
DEPTH TO BOTTOM OF WELL: 73.43 DIAMETER OF CASING: 2"  
DEPTH TO WATER IN WELL: 18.81 MATERIAL OF WELL: PVC  
FEET OF WATER IN WELL: 54.62 GALLONS PER FOOT: 0.16  
GALLONS OF WATER IN WELL: 8.74 AMOUNT TO PURGE: 55 gal

EVACUATION METHOD: DC Purgible Pump/dedicated bailer/dedicated watterra

**SAMPLING DATA/FIELD PARAMETERS**

COLOR: clear ODOR: leachate APPEARANCE: -  
PH: 5.51 TEMP: 12.49 COND: 1136 DO: 0.91  
OTHER: \_\_\_\_\_

SAMPLING METHOD AND MATERIAL: dedicated bailer/dedicated watterra

All bottles supplied and samples picked up by Alpha Lab. Results sent directly to Environmental Strategies and Management.

REMARKS: \* Field Filtered

SAMPLING PERSONNEL: Lynn K. Mulkeen-BCDHE

**WELL CASING VOLUMES:**

1 ¼"=0.06    1 ½"=0.09    2"=0.16    2 ½"=0.26    3"=0.37    3 ½"=0.50  
4"=0.65    6"=1.47

**ES&M QAQC Review Log**

| Lab   | Project Number | Sample Date | Matrix | CAM Form Included? | Lab Presumptive Certainty? | QC Performance Standards Met? | Reporting Limits Achieved? | All Analytes Reported? | Data Usability Status  |
|-------|----------------|-------------|--------|--------------------|----------------------------|-------------------------------|----------------------------|------------------------|------------------------|
| Alpha | L1604038       | 2/12/2016   | DW     | Yes                | Yes                        | Yes                           | Yes                        | No                     | Usable - CAM Compliant |

| Sample ID              | Date      | Lab ID      | Matrix | Analysis     | Sample ID                | Date      | Lab ID      | Matrix | Analysis     |
|------------------------|-----------|-------------|--------|--------------|--------------------------|-----------|-------------|--------|--------------|
| SCHOOLHOUSE RD_200     | 2/12/2016 | L1604038-01 | DW     | 8270         | ALSTON AVE_085 DUP       | 2/12/2016 | L1604038-06 | DW     | Not Analyzed |
| SCHOOLHOUSE RD_200 DUP | 2/12/2016 | L1604038-02 | DW     | Not Analyzed | PRESERVATION WAY_004     | 2/12/2016 | L1604038-07 | DW     | 8270         |
| DEEPWOOD DR_025        | 2/12/2016 | L1604038-03 | DW     | 8270         | PRESERVATION WAY_004 DUP | 2/12/2016 | L1604038-08 | DW     | 8270         |
| DEEPWOOD DR_025 DUP    | 2/12/2016 | L1604038-04 | DW     | Not Analyzed | MEETINGHOUSE RD_375      | 2/12/2016 | L1604038-09 | DW     | 8270         |
| ALSTON AVE_085         | 2/12/2016 | L1604038-05 | DW     | 8270         | MEETINGHOUSE RD_375 DUP  | 2/12/2016 | L1604038-10 | DW     | Not Analyzed |

All QAQC data, including surrogate, method blank, laboratory control sample (LCS), and LCS duplicate results were reviewed. This report was deemed usable by Angela Boyd on 2/29/16.



## ANALYTICAL REPORT

|                 |  |
|-----------------|--|
| Lab Number:     | L1604038   |
| Client:         | Environmental Strategies & Mgmt.<br>273 West Main Street<br>Norton, MA 02766 |
| ATTN:           | Lisa Flynn   |
| Phone:          | (508) 226-1800   |
| Project Name:   | EASTHAM DW   |
| Project Number: | 2015-038   |
| Report Date:    | 02/25/16   |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), ME (MA00030), PA (68-02089), VA (460194), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), USFWS (Permit #LE2069641), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

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320 Forbes Boulevard, Mansfield, MA 02048-1806  
508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** EASTHAM DW  
**Project Number:** 2015-038

**Lab Number:** L1604038  
**Report Date:** 02/25/16

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b>            | <b>Matrix</b>  | <b>Sample<br/>Location</b> | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|-----------------------------|----------------|----------------------------|---------------------------------|---------------------|
| L1604038-01                | SCHOOLHOUSE RD_200          | DRINKING WATER | EASTHAM, MA                | 02/12/16 11:00                  | 02/12/16            |
| L1604038-02                | SCHOOLHOUSE RD_200 DUP      | DRINKING WATER | EASTHAM, MA                | 02/12/16 11:05                  | 02/12/16            |
| L1604038-03                | DEEPWOOD DR_025             | DRINKING WATER | EASTHAM, MA                | 02/12/16 12:15                  | 02/12/16            |
| L1604038-04                | DEEPWOOD DR_025 DUP         | DRINKING WATER | EASTHAM, MA                | 02/12/16 12:20                  | 02/12/16            |
| L1604038-05                | ALSTON AVE_085              | DRINKING WATER | EASTHAM, MA                | 02/12/16 10:20                  | 02/12/16            |
| L1604038-06                | ALSTON AVE_085 DUP          | DRINKING WATER | EASTHAM, MA                | 02/12/16 10:25                  | 02/12/16            |
| L1604038-07                | PRESERVATION WAY_004        | DRINKING WATER | EASTHAM, MA                | 02/12/16 09:25                  | 02/12/16            |
| L1604038-08                | PRESERVATION WAY_004<br>DUP | DRINKING WATER | EASTHAM, MA                | 02/12/16 09:30                  | 02/12/16            |
| L1604038-09                | MEETINGHOUSE RD_375         | DRINKING WATER | EASTHAM, MA                | 02/12/16 13:15                  | 02/12/16            |
| L1604038-10                | MEETINGHOUSE RD_375 DUP     | DRINKING WATER | EASTHAM, MA                | 02/12/16 13:20                  | 02/12/16            |

Project Name: EASTHAM DW

Lab Number: L1604038

Project Number: 2015-038

Report Date: 02/25/16

**MADEP MCP Response Action Analytical Report Certification**

**This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.**

| <b>An affirmative response to questions A through F is required for "Presumptive Certainty" status</b>       |   |     |
|--|---|-----|
| A  | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | YES |
| B  | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?  | YES |
| C  | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?  | YES |
| D  | Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"                      | YES |
| E a.   | VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).   | N/A |
| E b.   | APH and TO-15 Methods only: Was the complete analyte list reported for each method?   | N/A |
| F  | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?                                   | YES |
| <b>A response to questions G, H and I is required for "Presumptive Certainty" status</b>                     |   |     |
| G  | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?   | YES |
| H  | Were all QC performance standards specified in the CAM protocol(s) achieved?  | YES |
| I  | Were results reported for the complete analyte list specified in the selected CAM protocol(s)?  | NO  |
| <b>For any questions answered "No", please refer to the case narrative section on the following page(s).</b> |   |     |

**Please note that sample matrix information is located in the Sample Results section of this report.**



**Project Name:** EASTHAM DW  
**Project Number:** 2015-038

**Lab Number:** L1604038  
**Report Date:** 02/25/16

### Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

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

Please contact Client Services at 800-624-9220 with any questions.

---

**Project Name:** EASTHAM DW  
**Project Number:** 2015-038

**Lab Number:** L1604038  
**Report Date:** 02/25/16

### Case Narrative (continued)

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### MCP Related Narratives

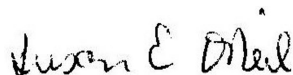
1,4-Dioxane by 8270-SIM

In reference to question I:

All samples were analyzed for a subset of MCP analytes per the Chain of Custody.

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

Authorized Signature:



Susan O'Neil

Title: Technical Director/Representative

Date: 02/25/16

# ORGANICS

# SEMIVOLATILES

**Project Name:** EASTHAM DW**Lab Number:** L1604038**Project Number:** 2015-038**Report Date:** 02/25/16**SAMPLE RESULTS**

**Lab ID:** L1604038-01  
**Client ID:** SCHOOLHOUSE RD\_200  
**Sample Location:** EASTHAM, MA  
**Matrix:** Drinking Water  
**Analytical Method:** 97,8270D-SIM  
**Analytical Date:** 02/17/16 12:36  
**Analyst:** SF

**Date Collected:** 02/12/16 11:00  
**Date Received:** 02/12/16  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 02/16/16 14:00

| Parameter                                    | Result | Qualifier | Units | RL    | MDL    | Dilution Factor |
|--|--------|-----------|-------|-------|--------|-----------------|
| MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab |        |           |       |       |        |                 |
| 1,4-Dioxane                                  | 0.0763 | J         | ug/l  | 0.147 | 0.0735 | 1               |

| Surrogate      | % Recovery | Qualifier | Acceptance Criteria |
|----------------|------------|-----------|---------------------|
| 1,4-Dioxane-d8 | 29         |           | 15-110              |

**Project Name:** EASTHAM DW**Lab Number:** L1604038**Project Number:** 2015-038**Report Date:** 02/25/16**SAMPLE RESULTS**

**Lab ID:** L1604038-03  
**Client ID:** DEEPWOOD DR\_025  
**Sample Location:** EASTHAM, MA  
**Matrix:** Drinking Water  
**Analytical Method:** 97,8270D-SIM  
**Analytical Date:** 02/17/16 13:22  
**Analyst:** SF

**Date Collected:** 02/12/16 12:15  
**Date Received:** 02/12/16  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 02/16/16 14:00

| Parameter                                    | Result | Qualifier | Units | RL    | MDL    | Dilution Factor |
|--|--------|-----------|-------|-------|--------|-----------------|
| MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab |        |           |       |       |        |                 |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 0.147 | 0.0735 | 1               |

| Surrogate      | % Recovery | Qualifier | Acceptance Criteria |
|----------------|------------|-----------|---------------------|
| 1,4-Dioxane-d8 | 28         |           | 15-110              |

**Project Name:** EASTHAM DW**Lab Number:** L1604038**Project Number:** 2015-038**Report Date:** 02/25/16**SAMPLE RESULTS**

**Lab ID:** L1604038-05  
**Client ID:** ALSTON AVE\_085  
**Sample Location:** EASTHAM, MA  
**Matrix:** Drinking Water  
**Analytical Method:** 97,8270D-SIM  
**Analytical Date:** 02/17/16 14:08  
**Analyst:** SF

**Date Collected:** 02/12/16 10:20  
**Date Received:** 02/12/16  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 02/16/16 14:00

| Parameter                                    | Result | Qualifier | Units | RL    | MDL    | Dilution Factor |
|--|--------|-----------|-------|-------|--------|-----------------|
| MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab |        |           |       |       |        |                 |
| 1,4-Dioxane                                  | 0.125  | J         | ug/l  | 0.147 | 0.0735 | 1               |

| Surrogate      | % Recovery | Qualifier | Acceptance Criteria |
|----------------|------------|-----------|---------------------|
| 1,4-Dioxane-d8 | 30         |           | 15-110              |

**Project Name:** EASTHAM DW**Lab Number:** L1604038**Project Number:** 2015-038**Report Date:** 02/25/16**SAMPLE RESULTS**

**Lab ID:** L1604038-07  
**Client ID:** PRESERVATION WAY\_004  
**Sample Location:** EASTHAM, MA  
**Matrix:** Drinking Water  
**Analytical Method:** 97,8270D-SIM  
**Analytical Date:** 02/17/16 14:54  
**Analyst:** SF

**Date Collected:** 02/12/16 09:25  
**Date Received:** 02/12/16  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 02/16/16 14:00

| Parameter                                    | Result | Qualifier | Units | RL    | MDL    | Dilution Factor |
|--|--------|-----------|-------|-------|--------|-----------------|
| MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab |        |           |       |       |        |                 |
| 1,4-Dioxane                                  | 0.209  |           | ug/l  | 0.147 | 0.0735 | 1               |

| Surrogate      | % Recovery | Qualifier | Acceptance Criteria |
|----------------|------------|-----------|---------------------|
| 1,4-Dioxane-d8 | 28         |           | 15-110              |

**Project Name:** EASTHAM DW**Lab Number:** L1604038**Project Number:** 2015-038**Report Date:** 02/25/16**SAMPLE RESULTS**

**Lab ID:** L1604038-08  
**Client ID:** PRESERVATION WAY\_004 DUP  
**Sample Location:** EASTHAM, MA  
**Matrix:** Drinking Water  
**Analytical Method:** 97,8270D-SIM  
**Analytical Date:** 02/23/16 17:10  
**Analyst:** SF

**Date Collected:** 02/12/16 09:30  
**Date Received:** 02/12/16  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 02/19/16 10:00

| Parameter                                    | Result | Qualifier | Units | RL    | MDL    | Dilution Factor |
|--|--------|-----------|-------|-------|--------|-----------------|
| MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab |        |           |       |       |        |                 |
| 1,4-Dioxane                                  | 0.208  |           | ug/l  | 0.153 | 0.0765 | 1               |

| Surrogate      | % Recovery | Qualifier | Acceptance Criteria |
|----------------|------------|-----------|---------------------|
| 1,4-Dioxane-d8 | 26         |           | 15-110              |

**Project Name:** EASTHAM DW**Lab Number:** L1604038**Project Number:** 2015-038**Report Date:** 02/25/16**SAMPLE RESULTS**

**Lab ID:** L1604038-09  
**Client ID:** MEETINGHOUSE RD\_375  
**Sample Location:** EASTHAM, MA  
**Matrix:** Drinking Water  
**Analytical Method:** 97,8270D-SIM  
**Analytical Date:** 02/17/16 15:40  
**Analyst:** SF

**Date Collected:** 02/12/16 13:15  
**Date Received:** 02/12/16  
**Field Prep:** Not Specified  
**Extraction Method:** EPA 3510C  
**Extraction Date:** 02/16/16 14:00

| Parameter                                    | Result | Qualifier | Units | RL    | MDL    | Dilution Factor |
|--|--------|-----------|-------|-------|--------|-----------------|
| MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab |        |           |       |       |        |                 |
| 1,4-Dioxane                                  | 0.133  | J         | ug/l  | 0.147 | 0.0735 | 1               |

| Surrogate      | % Recovery | Qualifier | Acceptance Criteria |
|----------------|------------|-----------|---------------------|
| 1,4-Dioxane-d8 | 28         |           | 15-110              |

**Project Name:** EASTHAM DW  
**Project Number:** 2015-038

**Lab Number:** L1604038  
**Report Date:** 02/25/16

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 97,8270D-SIM  
**Analytical Date:** 02/17/16 10:19  
**Analyst:** SF

**Extraction Method:** EPA 3510C  
**Extraction Date:** 02/16/16 14:00

| Parameter  | Result | Qualifier | Units | RL    | MDL    |
|--|--------|-----------|-------|-------|--------|
| MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01,03,05,07,09 Batch: WG865649-1 |        |           |       |       |        |
| 1,4-Dioxane  | ND     |           | ug/l  | 0.150 | 0.0750 |

| Surrogate      | %Recovery | Qualifier | Acceptance<br>Criteria |
|----------------|-----------|-----------|------------------------|
| 1,4-Dioxane-d8 | 30        |           | 15-110                 |

Project Name: EASTHAM DW

Lab Number: L1604038

Project Number: 2015-038

Report Date: 02/25/16

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 97,8270D-SIM

Extraction Method: EPA 3510C

Analytical Date: 02/19/16 22:50

Extraction Date: 02/19/16 10:00

Analyst: SF

| Parameter  | Result | Qualifier | Units | RL    | MDL    |
|--|--------|-----------|-------|-------|--------|
| MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 08 Batch: WG867911-1 |        |           |       |       |        |
| 1,4-Dioxane  | ND     |           | ug/l  | 0.150 | 0.0750 |

| Surrogate      | %Recovery | Qualifier | Acceptance<br>Criteria |
|----------------|-----------|-----------|------------------------|
| 1,4-Dioxane-d8 | 28        |           | 15-110                 |

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** EASTHAM DW  
**Project Number:** 2015-038

**Lab Number:** L1604038  
**Report Date:** 02/25/16

| Parameter  | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01,03,05,07,09 Batch: WG865649-2 WG865649-3 |                  |      |                   |      |                     |     |      |               |
| 1,4-Dioxane  | 102              |      | 104               |      | 40-140              | 2   |      | 20            |

| Surrogate      | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|----------------|------------------|------|-------------------|------|------------------------|
| 1,4-Dioxane-d8 | 34               |      | 34                |      | 15-110                 |

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** EASTHAM DW  
**Project Number:** 2015-038

**Lab Number:** L1604038  
**Report Date:** 02/25/16

| Parameter  | <i>LCS</i><br>%Recovery | <i>Qual</i> | <i>LCSD</i><br>%Recovery | <i>Qual</i> | <i>%Recovery</i><br>Limits | <i>RPD</i> | <i>Qual</i> | <i>RPD</i><br>Limits |
|--|-------------------------|-------------|--------------------------|-------------|----------------------------|------------|-------------|----------------------|
| MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 08 Batch: WG867911-2 WG867911-3 |                         |             |                          |             |                            |            |             |                      |
| 1,4-Dioxane  | 104                     |             | 107                      |             | 40-140                     | 3          |             | 20                   |

| <i>Surrogate</i> | <i>LCS</i><br>%Recovery | <i>Qual</i> | <i>LCSD</i><br>%Recovery | <i>Qual</i> | <i>Acceptance</i><br><i>Criteria</i> |
|------------------|-------------------------|-------------|--------------------------|-------------|--------------------------------------|
| 1,4-Dioxane-d8   | 26                      |             | 24                       |             | 15-110                               |

Project Name: EASTHAM DW

Project Number: 2015-038

Lab Number: L1604038

Report Date: 02/25/16

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information Custody Seal****Cooler**

A Absent

**Container Information**

| Container ID | Container Type          | Cooler | pH | Temp<br>deg C | Pres | Seal   | Analysis(*)            |
|--------------|-------------------------|--------|----|---------------|------|--------|------------------------|
| L1604038-01A | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1604038-01B | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1604038-02A | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | HOLD(14)               |
| L1604038-02B | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | HOLD(14)               |
| L1604038-03A | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1604038-03B | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1604038-04A | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | HOLD(14)               |
| L1604038-04B | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | HOLD(14)               |
| L1604038-05A | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1604038-05B | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1604038-06A | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | HOLD(14)               |
| L1604038-06B | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | HOLD(14)               |
| L1604038-07A | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1604038-07B | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1604038-08A | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1604038-08B | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1604038-09A | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1604038-09B | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1604038-10A | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | HOLD(14)               |
| L1604038-10B | Amber 500ml unpreserved | A      | 7  | 3.2           | Y    | Absent | HOLD(14)               |

\*Values in parentheses indicate holding time in days



**Project Name:** EASTHAM DW  
**Project Number:** 2015-038

**Lab Number:** L1604038  
**Report Date:** 02/25/16

## GLOSSARY

### Acronyms

|       |   |
|-------|---|
| EDL   | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).                        |
| EPA   | - Environmental Protection Agency.  |
| LCS   | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.   |
| LCS D | - Laboratory Control Sample Duplicate: Refer to LCS.  |
| LFB   | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.  |
| MDL   | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.   |
| MS    | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.  |
| MSD   | - Matrix Spike Sample Duplicate: Refer to MS.   |
| NA    | - Not Applicable.   |
| NC    | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.  |
| NI    | - Not Ignitable.  |
| NP    | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.   |
| RL    | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.  |
| RPD   | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM   | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.  |
| STLP  | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.   |
| TIC   | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.   |

### Footnotes

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

### Terms

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

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

### Data Qualifiers

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

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** EASTHAM DW  
**Project Number:** 2015-038

**Lab Number:** L1604038  
**Report Date:** 02/25/16

#### Data Qualifiers

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** EASTHAM DW  
**Project Number:** 2015-038

**Lab Number:** L1604038  
**Report Date:** 02/25/16

## REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

## LIMITATION OF LIABILITIES

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

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



## Certification Information

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

### Westborough Facility

**EPA 524.2:** 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene  
**EPA 624:** 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene  
**EPA 625:** Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.  
**EPA 1010A:** NPW: Ignitability  
**EPA 6010C:** NPW: Strontium; SCM: Strontium  
**EPA 8151A:** NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP  
**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.  
**EPA 8270D:** NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.  
**EPA 9010:** NPW: Amenable Cyanide Distillation, Total Cyanide Distillation  
**EPA 9038:** NPW: Sulfate  
**EPA 9050A:** NPW: Specific Conductance  
**EPA 9056:** NPW: Chloride, Nitrate, Sulfate  
**EPA 9065:** NPW: Phenols  
**EPA 9251:** NPW: Chloride  
**SM3500:** NPW: Ferrous Iron  
**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.  
**SM5310C:** DW: Dissolved Organic Carbon

### Mansfield Facility

**EPA 8270D:** NPW: Biphenyl; SCM: Biphenyl, Caprolactam  
**EPA 8270D-SIM Isotope Dilution:** SCM: 1,4-Dioxane  
**SM 2540D:** TSS  
**SM2540G:** SCM: Percent Solids  
**EPA 1631E:** SCM: Mercury  
**EPA 7474:** SCM: Mercury  
**EPA 8081B:** NPW and SCM: Mirex, Hexachlorobenzene.  
**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.  
**EPA 8270-SIM:** NPW and SCM: Alkylated PAHs.  
**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.  
**Biological Tissue Matrix:** **8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:** Lead; **8270D:** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;  
**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**  
**EPA 332:** Perchlorate.  
**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;  
**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;  
**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**  
**EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**  
**EPA 624:** Volatile Halocarbons & Aromatics,  
**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs  
**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.  
**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

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



**ES&M QAQC Review Log**

| Lab   | Project Number | Sample Date | Matrix | CAM Form Included? | Lab Presumptive Certainty? | QC Performance Standards Met? | Reporting Limits Achieved? | All Analytes Reported? | Data Usability Status  |
|-------|----------------|-------------|--------|--------------------|----------------------------|-------------------------------|----------------------------|------------------------|------------------------|
| Alpha | L1604899       | 2/23/2016   | GW     | Yes                | Yes                        | No                            | Yes                        | No                     | Usable - CAM Compliant |

| Sample ID | Date      | Lab ID      | Matrix | Analysis   |
|-----------|-----------|-------------|--------|--|
| MW-3I     | 2/23/2016 | L1604899-01 | GW     | 8260C, 8270, metals, cyanide, alkalinity, TDS, chloride, nitrate, sulfate, COD |
| MW-3D     | 2/23/2016 | L1604899-02 | GW     | 8260C, 8270, metals, cyanide, alkalinity, TDS, chloride, nitrate, sulfate, COD |

The initial calibration, associated with L1604899-01 and -02, did not meet the method required minimum response factor on the lowest calibration standard for bromodichloromethane (0.18253) and trichloroethene (0.16585).

The continuing calibration standard, associated with L1604899-01 and -02, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

All QAQC data, including surrogate, method blank, laboratory control sample (LCS), LCS duplicate, matrix spike, and lab duplicate results were reviewed. This report was deemed usable by Angela Boyd on 3/10/16.



## ANALYTICAL REPORT

|                 |  |
|-----------------|--|
| Lab Number:     | L1604899   |
| Client:         | Environmental Strategies & Mgmt.<br>273 West Main Street<br>Norton, MA 02766 |
| ATTN:           | Lisa Flynn   |
| Phone:          | (508) 226-1800   |
| Project Name:   | EASTHAM LANDFILL   |
| Project Number: | 2015-038   |
| Report Date:    | 03/08/16   |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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



**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b> | <b>Matrix</b> | <b>Sample<br/>Location</b> | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L1604899-01                | MW-3I            | WATER         | EASTHAM, MA                | 02/23/16 11:00                  | 02/23/16            |
| L1604899-02                | MW-3D            | WATER         | EASTHAM, MA                | 02/23/16 11:00                  | 02/23/16            |
| L1604899-03                | TRIP BLANK       | WATER         | EASTHAM, MA                | 02/23/16 00:00                  | 02/23/16            |

Project Name: EASTHAM LANDFILL

Lab Number: L1604899

Project Number: 2015-038

Report Date: 03/08/16

**MADEP MCP Response Action Analytical Report Certification**

**This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.**

| <b>An affirmative response to questions A through F is required for "Presumptive Certainty" status</b>       |   |     |
|--|---|-----|
| A  | Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | YES |
| B  | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?  | YES |
| C  | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?  | YES |
| D  | Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"                      | YES |
| E a.   | VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).   | N/A |
| E b.   | APH and TO-15 Methods only: Was the complete analyte list reported for each method?   | N/A |
| F  | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?                                   | YES |
| <b>A response to questions G, H and I is required for "Presumptive Certainty" status</b>                     |   |     |
| G  | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?   | YES |
| H  | Were all QC performance standards specified in the CAM protocol(s) achieved?  | NO  |
| I  | Were results reported for the complete analyte list specified in the selected CAM protocol(s)?  | NO  |
| <b>For any questions answered "No", please refer to the case narrative section on the following page(s).</b> |   |     |

**Please note that sample matrix information is located in the Sample Results section of this report.**



**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

### Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

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

Please contact Client Services at 800-624-9220 with any questions.

---

**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

### Case Narrative (continued)

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Sample Receipt

A Trip Blank was listed on the Chain of Custody, but not received in the laboratory.

#### MCP Related Narratives

##### Volatile Organics

In reference to question H:

The initial calibration, associated with L1604899-01 and -02, did not meet the method required minimum response factor on the lowest calibration standard for bromodichloromethane (0.18253) and trichloroethene (0.16585).

The continuing calibration standard, associated with L1604899-01 and -02, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

#### Dissolved Metals

In reference to question I:

All samples were analyzed for a subset of MCP analytes per the Chain of Custody.

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

Authorized Signature:

 Lura L Troy

Title: Technical Director/Representative

Date: 03/08/16

# ORGANICS

# VOLATILES

**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

**SAMPLE RESULTS**

Lab ID: L1604899-01  
 Client ID: MW-3I  
 Sample Location: EASTHAM, MA  
 Matrix: Water  
 Analytical Method: 97,8260C  
 Analytical Date: 03/04/16 22:13  
 Analyst: BS

Date Collected: 02/23/16 11:00  
 Date Received: 02/23/16  
 Field Prep: Field Filtered (Metals)

| Parameter                                      | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|--|--------|-----------|-------|------|------|-----------------|
| <b>MCP Volatile Organics - Westborough Lab</b> |        |           |       |      |      |                 |
| Methylene chloride                             | ND     |           | ug/l  | 2.0  | 0.29 | 1               |
| 1,1-Dichloroethane                             | ND     |           | ug/l  | 1.0  | 0.21 | 1               |
| Chloroform                                     | ND     |           | ug/l  | 1.0  | 0.16 | 1               |
| Carbon tetrachloride                           | ND     |           | ug/l  | 1.0  | 0.13 | 1               |
| 1,2-Dichloropropane                            | ND     |           | ug/l  | 1.0  | 0.13 | 1               |
| Dibromochloromethane                           | ND     |           | ug/l  | 1.0  | 0.15 | 1               |
| 1,1,2-Trichloroethane                          | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Tetrachloroethene                              | ND     |           | ug/l  | 1.0  | 0.18 | 1               |
| Chlorobenzene                                  | 0.27   | J         | ug/l  | 1.0  | 0.18 | 1               |
| Trichlorofluoromethane                         | ND     |           | ug/l  | 2.0  | 0.16 | 1               |
| 1,2-Dichloroethane                             | ND     |           | ug/l  | 1.0  | 0.13 | 1               |
| 1,1,1-Trichloroethane                          | ND     |           | ug/l  | 1.0  | 0.16 | 1               |
| Bromodichloromethane                           | ND     |           | ug/l  | 1.0  | 0.19 | 1               |
| trans-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                        | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| 1,3-Dichloropropene, Total                     | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| 1,1-Dichloropropene                            | ND     |           | ug/l  | 2.0  | 0.17 | 1               |
| Bromoform                                      | ND     |           | ug/l  | 2.0  | 0.25 | 1               |
| 1,1,2,2-Tetrachloroethane                      | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Benzene  | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| Toluene  | ND     |           | ug/l  | 1.0  | 0.16 | 1               |
| Ethylbenzene                                   | ND     |           | ug/l  | 1.0  | 0.17 | 1               |
| Chloromethane                                  | ND     |           | ug/l  | 2.0  | 0.18 | 1               |
| Bromomethane                                   | ND     |           | ug/l  | 2.0  | 0.26 | 1               |
| Vinyl chloride                                 | ND     |           | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                   | ND     |           | ug/l  | 2.0  | 0.13 | 1               |
| 1,1-Dichloroethene                             | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| trans-1,2-Dichloroethene                       | ND     |           | ug/l  | 1.0  | 0.16 | 1               |
| Trichloroethene                                | ND     |           | ug/l  | 1.0  | 0.18 | 1               |
| 1,2-Dichlorobenzene                            | ND     |           | ug/l  | 1.0  | 0.18 | 1               |

Project Name: EASTHAM LANDFILL

Lab Number: L1604899

Project Number: 2015-038

Report Date: 03/08/16

## SAMPLE RESULTS

Lab ID: L1604899-01  
 Client ID: MW-3I  
 Sample Location: EASTHAM, MA

Date Collected: 02/23/16 11:00  
 Date Received: 02/23/16  
 Field Prep: Field Filtered (Metals)

| Parameter                                      | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|--|--------|-----------|-------|------|------|-----------------|
| <b>MCP Volatile Organics - Westborough Lab</b> |        |           |       |      |      |                 |
| 1,3-Dichlorobenzene                            | ND     |           | ug/l  | 1.0  | 0.19 | 1               |
| 1,4-Dichlorobenzene                            | ND     |           | ug/l  | 1.0  | 0.19 | 1               |
| Methyl tert butyl ether                        | ND     |           | ug/l  | 2.0  | 0.16 | 1               |
| p/m-Xylene                                     | ND     |           | ug/l  | 2.0  | 0.33 | 1               |
| o-Xylene                                       | ND     |           | ug/l  | 1.0  | 0.33 | 1               |
| Xylene (Total)                                 | ND     |           | ug/l  | 1.0  | 0.33 | 1               |
| cis-1,2-Dichloroethene                         | 0.29   | J         | ug/l  | 1.0  | 0.19 | 1               |
| 1,2-Dichloroethene (total)                     | 0.29   | J         | ug/l  | 1.0  | 0.16 | 1               |
| Dibromomethane                                 | ND     |           | ug/l  | 2.0  | 0.36 | 1               |
| 1,2,3-Trichloropropane                         | ND     |           | ug/l  | 2.0  | 0.18 | 1               |
| Styrene  | ND     |           | ug/l  | 1.0  | 0.36 | 1               |
| Dichlorodifluoromethane                        | ND     |           | ug/l  | 2.0  | 0.24 | 1               |
| Acetone  | ND     |           | ug/l  | 5.0  | 1.5  | 1               |
| Carbon disulfide                               | ND     |           | ug/l  | 2.0  | 0.30 | 1               |
| 2-Butanone                                     | ND     |           | ug/l  | 5.0  | 1.9  | 1               |
| 4-Methyl-2-pentanone                           | ND     |           | ug/l  | 5.0  | 0.42 | 1               |
| 2-Hexanone                                     | ND     |           | ug/l  | 5.0  | 0.52 | 1               |
| Bromochloromethane                             | ND     |           | ug/l  | 2.0  | 0.14 | 1               |
| Tetrahydrofuran                                | ND     |           | ug/l  | 2.0  | 0.52 | 1               |
| 2,2-Dichloropropane                            | ND     |           | ug/l  | 2.0  | 0.20 | 1               |
| 1,2-Dibromoethane                              | ND     |           | ug/l  | 2.0  | 0.19 | 1               |
| 1,3-Dichloropropane                            | ND     |           | ug/l  | 2.0  | 0.21 | 1               |
| 1,1,1,2-Tetrachloroethane                      | ND     |           | ug/l  | 1.0  | 0.16 | 1               |
| Bromobenzene                                   | ND     |           | ug/l  | 2.0  | 0.15 | 1               |
| n-Butylbenzene                                 | ND     |           | ug/l  | 2.0  | 0.19 | 1               |
| sec-Butylbenzene                               | ND     |           | ug/l  | 2.0  | 0.18 | 1               |
| tert-Butylbenzene                              | ND     |           | ug/l  | 2.0  | 0.18 | 1               |
| o-Chlorotoluene                                | ND     |           | ug/l  | 2.0  | 0.17 | 1               |
| p-Chlorotoluene                                | ND     |           | ug/l  | 2.0  | 0.18 | 1               |
| 1,2-Dibromo-3-chloropropane                    | ND     |           | ug/l  | 2.0  | 0.33 | 1               |
| Hexachlorobutadiene                            | ND     |           | ug/l  | 0.60 | 0.22 | 1               |
| Isopropylbenzene                               | ND     |           | ug/l  | 2.0  | 0.19 | 1               |
| p-Isopropyltoluene                             | ND     |           | ug/l  | 2.0  | 0.19 | 1               |
| Naphthalene                                    | ND     |           | ug/l  | 2.0  | 0.22 | 1               |
| n-Propylbenzene                                | ND     |           | ug/l  | 2.0  | 0.17 | 1               |
| 1,2,3-Trichlorobenzene                         | ND     |           | ug/l  | 2.0  | 0.23 | 1               |
| 1,2,4-Trichlorobenzene                         | ND     |           | ug/l  | 2.0  | 0.22 | 1               |
| 1,3,5-Trimethylbenzene                         | ND     |           | ug/l  | 2.0  | 0.17 | 1               |
| 1,2,4-Trimethylbenzene                         | ND     |           | ug/l  | 2.0  | 0.19 | 1               |

**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

**SAMPLE RESULTS**

Lab ID: L1604899-01  
 Client ID: MW-3I  
 Sample Location: EASTHAM, MA

Date Collected: 02/23/16 11:00  
 Date Received: 02/23/16  
 Field Prep: Field Filtered (Metals)

| Parameter                                      | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|--|--------|-----------|-------|-----|------|-----------------|
| <b>MCP Volatile Organics - Westborough Lab</b> |        |           |       |     |      |                 |
| Ethyl ether                                    | 0.22   | J         | ug/l  | 2.0 | 0.15 | 1               |
| Isopropyl Ether                                | ND     |           | ug/l  | 2.0 | 0.42 | 1               |
| Ethyl-Tert-Butyl-Ether                         | ND     |           | ug/l  | 2.0 | 0.18 | 1               |
| Tertiary-Amyl Methyl Ether                     | ND     |           | ug/l  | 2.0 | 0.28 | 1               |
| 1,4-Dioxane                                    | ND     |           | ug/l  | 250 | 41.  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 104        |           | 70-130              |
| Toluene-d8            | 99         |           | 70-130              |
| 4-Bromofluorobenzene  | 97         |           | 70-130              |
| Dibromofluoromethane  | 105        |           | 70-130              |

**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

**SAMPLE RESULTS**

Lab ID: L1604899-02  
 Client ID: MW-3D  
 Sample Location: EASTHAM, MA  
 Matrix: Water  
 Analytical Method: 97,8260C  
 Analytical Date: 03/04/16 22:38  
 Analyst: BS

Date Collected: 02/23/16 11:00  
 Date Received: 02/23/16  
 Field Prep: Field Filtered (Metals)

| Parameter                                      | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|--|--------|-----------|-------|------|------|-----------------|
| <b>MCP Volatile Organics - Westborough Lab</b> |        |           |       |      |      |                 |
| Methylene chloride                             | ND     |           | ug/l  | 2.0  | 0.29 | 1               |
| 1,1-Dichloroethane                             | ND     |           | ug/l  | 1.0  | 0.21 | 1               |
| Chloroform                                     | ND     |           | ug/l  | 1.0  | 0.16 | 1               |
| Carbon tetrachloride                           | ND     |           | ug/l  | 1.0  | 0.13 | 1               |
| 1,2-Dichloropropane                            | ND     |           | ug/l  | 1.0  | 0.13 | 1               |
| Dibromochloromethane                           | ND     |           | ug/l  | 1.0  | 0.15 | 1               |
| 1,1,2-Trichloroethane                          | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Tetrachloroethene                              | ND     |           | ug/l  | 1.0  | 0.18 | 1               |
| Chlorobenzene                                  | 0.81   | J         | ug/l  | 1.0  | 0.18 | 1               |
| Trichlorofluoromethane                         | ND     |           | ug/l  | 2.0  | 0.16 | 1               |
| 1,2-Dichloroethane                             | ND     |           | ug/l  | 1.0  | 0.13 | 1               |
| 1,1,1-Trichloroethane                          | ND     |           | ug/l  | 1.0  | 0.16 | 1               |
| Bromodichloromethane                           | ND     |           | ug/l  | 1.0  | 0.19 | 1               |
| trans-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                        | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| 1,3-Dichloropropene, Total                     | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| 1,1-Dichloropropene                            | ND     |           | ug/l  | 2.0  | 0.17 | 1               |
| Bromoform                                      | ND     |           | ug/l  | 2.0  | 0.25 | 1               |
| 1,1,2,2-Tetrachloroethane                      | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Benzene  | 0.64   |           | ug/l  | 0.50 | 0.16 | 1               |
| Toluene  | ND     |           | ug/l  | 1.0  | 0.16 | 1               |
| Ethylbenzene                                   | ND     |           | ug/l  | 1.0  | 0.17 | 1               |
| Chloromethane                                  | ND     |           | ug/l  | 2.0  | 0.18 | 1               |
| Bromomethane                                   | ND     |           | ug/l  | 2.0  | 0.26 | 1               |
| Vinyl chloride                                 | 0.27   | J         | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                   | ND     |           | ug/l  | 2.0  | 0.13 | 1               |
| 1,1-Dichloroethene                             | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| trans-1,2-Dichloroethene                       | ND     |           | ug/l  | 1.0  | 0.16 | 1               |
| Trichloroethene                                | ND     |           | ug/l  | 1.0  | 0.18 | 1               |
| 1,2-Dichlorobenzene                            | ND     |           | ug/l  | 1.0  | 0.18 | 1               |

Project Name: EASTHAM LANDFILL

Lab Number: L1604899

Project Number: 2015-038

Report Date: 03/08/16

## SAMPLE RESULTS

Lab ID: L1604899-02  
 Client ID: MW-3D  
 Sample Location: EASTHAM, MA

Date Collected: 02/23/16 11:00  
 Date Received: 02/23/16  
 Field Prep: Field Filtered (Metals)

| Parameter                                      | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|--|--------|-----------|-------|------|------|-----------------|
| <b>MCP Volatile Organics - Westborough Lab</b> |        |           |       |      |      |                 |
| 1,3-Dichlorobenzene                            | ND     |           | ug/l  | 1.0  | 0.19 | 1               |
| 1,4-Dichlorobenzene                            | 0.28   | J         | ug/l  | 1.0  | 0.19 | 1               |
| Methyl tert butyl ether                        | 0.58   | J         | ug/l  | 2.0  | 0.16 | 1               |
| p/m-Xylene                                     | ND     |           | ug/l  | 2.0  | 0.33 | 1               |
| o-Xylene                                       | ND     |           | ug/l  | 1.0  | 0.33 | 1               |
| Xylene (Total)                                 | ND     |           | ug/l  | 1.0  | 0.33 | 1               |
| cis-1,2-Dichloroethene                         | 1.2    |           | ug/l  | 1.0  | 0.19 | 1               |
| 1,2-Dichloroethene (total)                     | 1.2    |           | ug/l  | 1.0  | 0.16 | 1               |
| Dibromomethane                                 | ND     |           | ug/l  | 2.0  | 0.36 | 1               |
| 1,2,3-Trichloropropane                         | ND     |           | ug/l  | 2.0  | 0.18 | 1               |
| Styrene  | ND     |           | ug/l  | 1.0  | 0.36 | 1               |
| Dichlorodifluoromethane                        | ND     |           | ug/l  | 2.0  | 0.24 | 1               |
| Acetone  | ND     |           | ug/l  | 5.0  | 1.5  | 1               |
| Carbon disulfide                               | ND     |           | ug/l  | 2.0  | 0.30 | 1               |
| 2-Butanone                                     | ND     |           | ug/l  | 5.0  | 1.9  | 1               |
| 4-Methyl-2-pentanone                           | ND     |           | ug/l  | 5.0  | 0.42 | 1               |
| 2-Hexanone                                     | ND     |           | ug/l  | 5.0  | 0.52 | 1               |
| Bromochloromethane                             | ND     |           | ug/l  | 2.0  | 0.14 | 1               |
| Tetrahydrofuran                                | 0.59   | J         | ug/l  | 2.0  | 0.52 | 1               |
| 2,2-Dichloropropane                            | ND     |           | ug/l  | 2.0  | 0.20 | 1               |
| 1,2-Dibromoethane                              | ND     |           | ug/l  | 2.0  | 0.19 | 1               |
| 1,3-Dichloropropane                            | ND     |           | ug/l  | 2.0  | 0.21 | 1               |
| 1,1,1,2-Tetrachloroethane                      | ND     |           | ug/l  | 1.0  | 0.16 | 1               |
| Bromobenzene                                   | ND     |           | ug/l  | 2.0  | 0.15 | 1               |
| n-Butylbenzene                                 | ND     |           | ug/l  | 2.0  | 0.19 | 1               |
| sec-Butylbenzene                               | ND     |           | ug/l  | 2.0  | 0.18 | 1               |
| tert-Butylbenzene                              | ND     |           | ug/l  | 2.0  | 0.18 | 1               |
| o-Chlorotoluene                                | ND     |           | ug/l  | 2.0  | 0.17 | 1               |
| p-Chlorotoluene                                | ND     |           | ug/l  | 2.0  | 0.18 | 1               |
| 1,2-Dibromo-3-chloropropane                    | ND     |           | ug/l  | 2.0  | 0.33 | 1               |
| Hexachlorobutadiene                            | ND     |           | ug/l  | 0.60 | 0.22 | 1               |
| Isopropylbenzene                               | ND     |           | ug/l  | 2.0  | 0.19 | 1               |
| p-Isopropyltoluene                             | ND     |           | ug/l  | 2.0  | 0.19 | 1               |
| Naphthalene                                    | ND     |           | ug/l  | 2.0  | 0.22 | 1               |
| n-Propylbenzene                                | ND     |           | ug/l  | 2.0  | 0.17 | 1               |
| 1,2,3-Trichlorobenzene                         | ND     |           | ug/l  | 2.0  | 0.23 | 1               |
| 1,2,4-Trichlorobenzene                         | ND     |           | ug/l  | 2.0  | 0.22 | 1               |
| 1,3,5-Trimethylbenzene                         | ND     |           | ug/l  | 2.0  | 0.17 | 1               |
| 1,2,4-Trimethylbenzene                         | ND     |           | ug/l  | 2.0  | 0.19 | 1               |

**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

**SAMPLE RESULTS**

Lab ID: L1604899-02  
 Client ID: MW-3D  
 Sample Location: EASTHAM, MA

Date Collected: 02/23/16 11:00  
 Date Received: 02/23/16  
 Field Prep: Field Filtered (Metals)

| Parameter                                      | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|--|--------|-----------|-------|-----|------|-----------------|
| <b>MCP Volatile Organics - Westborough Lab</b> |        |           |       |     |      |                 |
| Ethyl ether                                    | 18     |           | ug/l  | 2.0 | 0.15 | 1               |
| Isopropyl Ether                                | ND     |           | ug/l  | 2.0 | 0.42 | 1               |
| Ethyl-Tert-Butyl-Ether                         | ND     |           | ug/l  | 2.0 | 0.18 | 1               |
| Tertiary-Amyl Methyl Ether                     | ND     |           | ug/l  | 2.0 | 0.28 | 1               |
| 1,4-Dioxane                                    | ND     |           | ug/l  | 250 | 41.  | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 101        |           | 70-130              |
| Toluene-d8            | 99         |           | 70-130              |
| 4-Bromofluorobenzene  | 95         |           | 70-130              |
| Dibromofluoromethane  | 105        |           | 70-130              |

**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 03/04/16 20:09  
Analyst: BS

| Parameter  | Result | Qualifier | Units | RL   | MDL  |
|--|--------|-----------|-------|------|------|
| MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG870980-3 |        |           |       |      |      |
| Methylene chloride   | ND     |           | ug/l  | 2.0  | 0.29 |
| 1,1-Dichloroethane   | ND     |           | ug/l  | 1.0  | 0.21 |
| Chloroform   | ND     |           | ug/l  | 1.0  | 0.16 |
| Carbon tetrachloride   | ND     |           | ug/l  | 1.0  | 0.13 |
| 1,2-Dichloropropane  | ND     |           | ug/l  | 1.0  | 0.13 |
| Dibromochloromethane   | ND     |           | ug/l  | 1.0  | 0.15 |
| 1,1,2-Trichloroethane  | ND     |           | ug/l  | 1.0  | 0.14 |
| Tetrachloroethene  | ND     |           | ug/l  | 1.0  | 0.18 |
| Chlorobenzene  | ND     |           | ug/l  | 1.0  | 0.18 |
| Trichlorofluoromethane   | ND     |           | ug/l  | 2.0  | 0.16 |
| 1,2-Dichloroethane   | ND     |           | ug/l  | 1.0  | 0.13 |
| 1,1,1-Trichloroethane  | ND     |           | ug/l  | 1.0  | 0.16 |
| Bromodichloromethane   | ND     |           | ug/l  | 1.0  | 0.19 |
| trans-1,3-Dichloropropene  | ND     |           | ug/l  | 0.50 | 0.16 |
| cis-1,3-Dichloropropene  | ND     |           | ug/l  | 0.50 | 0.14 |
| 1,3-Dichloropropene, Total   | ND     |           | ug/l  | 0.50 | 0.14 |
| 1,1-Dichloropropene  | ND     |           | ug/l  | 2.0  | 0.17 |
| Bromoform  | ND     |           | ug/l  | 2.0  | 0.25 |
| 1,1,2,2-Tetrachloroethane  | ND     |           | ug/l  | 1.0  | 0.14 |
| Benzene  | ND     |           | ug/l  | 0.50 | 0.16 |
| Toluene  | ND     |           | ug/l  | 1.0  | 0.16 |
| Ethylbenzene   | ND     |           | ug/l  | 1.0  | 0.17 |
| Chloromethane  | ND     |           | ug/l  | 2.0  | 0.18 |
| Bromomethane   | ND     |           | ug/l  | 2.0  | 0.26 |
| Vinyl chloride   | ND     |           | ug/l  | 1.0  | 0.07 |
| Chloroethane   | ND     |           | ug/l  | 2.0  | 0.13 |
| 1,1-Dichloroethene   | ND     |           | ug/l  | 1.0  | 0.14 |
| trans-1,2-Dichloroethene   | ND     |           | ug/l  | 1.0  | 0.16 |
| Trichloroethene  | ND     |           | ug/l  | 1.0  | 0.18 |

**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 03/04/16 20:09  
Analyst: BS

| Parameter  | Result | Qualifier | Units | RL  | MDL  |
|--|--------|-----------|-------|-----|------|
| MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG870980-3 |        |           |       |     |      |
| 1,2-Dichlorobenzene  | ND     |           | ug/l  | 1.0 | 0.18 |
| 1,3-Dichlorobenzene  | ND     |           | ug/l  | 1.0 | 0.19 |
| 1,4-Dichlorobenzene  | ND     |           | ug/l  | 1.0 | 0.19 |
| Methyl tert butyl ether  | ND     |           | ug/l  | 2.0 | 0.16 |
| p/m-Xylene   | ND     |           | ug/l  | 2.0 | 0.33 |
| o-Xylene   | ND     |           | ug/l  | 1.0 | 0.33 |
| Xylene (Total)   | ND     |           | ug/l  | 1.0 | 0.33 |
| cis-1,2-Dichloroethene   | ND     |           | ug/l  | 1.0 | 0.19 |
| 1,2-Dichloroethene (total)   | ND     |           | ug/l  | 1.0 | 0.16 |
| Dibromomethane   | ND     |           | ug/l  | 2.0 | 0.36 |
| 1,2,3-Trichloropropane   | ND     |           | ug/l  | 2.0 | 0.18 |
| Styrene  | ND     |           | ug/l  | 1.0 | 0.36 |
| Dichlorodifluoromethane  | ND     |           | ug/l  | 2.0 | 0.24 |
| Acetone  | ND     |           | ug/l  | 5.0 | 1.5  |
| Carbon disulfide   | ND     |           | ug/l  | 2.0 | 0.30 |
| 2-Butanone   | ND     |           | ug/l  | 5.0 | 1.9  |
| 4-Methyl-2-pentanone   | ND     |           | ug/l  | 5.0 | 0.42 |
| 2-Hexanone   | ND     |           | ug/l  | 5.0 | 0.52 |
| Bromochloromethane   | ND     |           | ug/l  | 2.0 | 0.14 |
| Tetrahydrofuran  | ND     |           | ug/l  | 2.0 | 0.52 |
| 2,2-Dichloropropane  | ND     |           | ug/l  | 2.0 | 0.20 |
| 1,2-Dibromoethane  | ND     |           | ug/l  | 2.0 | 0.19 |
| 1,3-Dichloropropane  | ND     |           | ug/l  | 2.0 | 0.21 |
| 1,1,1,2-Tetrachloroethane  | ND     |           | ug/l  | 1.0 | 0.16 |
| Bromobenzene   | ND     |           | ug/l  | 2.0 | 0.15 |
| n-Butylbenzene   | ND     |           | ug/l  | 2.0 | 0.19 |
| sec-Butylbenzene   | ND     |           | ug/l  | 2.0 | 0.18 |
| tert-Butylbenzene  | ND     |           | ug/l  | 2.0 | 0.18 |
| o-Chlorotoluene  | ND     |           | ug/l  | 2.0 | 0.17 |

**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 03/04/16 20:09  
Analyst: BS

| Parameter  | Result | Qualifier | Units | RL   | MDL  |
|--|--------|-----------|-------|------|------|
| MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG870980-3 |        |           |       |      |      |
| p-Chlorotoluene  | ND     |           | ug/l  | 2.0  | 0.18 |
| 1,2-Dibromo-3-chloropropane  | ND     |           | ug/l  | 2.0  | 0.33 |
| Hexachlorobutadiene  | ND     |           | ug/l  | 0.60 | 0.22 |
| Isopropylbenzene   | ND     |           | ug/l  | 2.0  | 0.19 |
| p-Isopropyltoluene   | ND     |           | ug/l  | 2.0  | 0.19 |
| Naphthalene  | ND     |           | ug/l  | 2.0  | 0.22 |
| n-Propylbenzene  | ND     |           | ug/l  | 2.0  | 0.17 |
| 1,2,3-Trichlorobenzene   | ND     |           | ug/l  | 2.0  | 0.23 |
| 1,2,4-Trichlorobenzene   | ND     |           | ug/l  | 2.0  | 0.22 |
| 1,3,5-Trimethylbenzene   | ND     |           | ug/l  | 2.0  | 0.17 |
| 1,2,4-Trimethylbenzene   | ND     |           | ug/l  | 2.0  | 0.19 |
| Ethyl ether  | ND     |           | ug/l  | 2.0  | 0.15 |
| Isopropyl Ether  | ND     |           | ug/l  | 2.0  | 0.42 |
| Ethyl-Tert-Butyl-Ether   | ND     |           | ug/l  | 2.0  | 0.18 |
| Tertiary-Amyl Methyl Ether   | ND     |           | ug/l  | 2.0  | 0.28 |
| 1,4-Dioxane  | ND     |           | ug/l  | 250  | 41.  |

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: EASTHAM LANDFILL

Lab Number: L1604899

Project Number: 2015-038

Report Date: 03/08/16

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
 Analytical Date: 03/04/16 20:09  
 Analyst: BS

| Parameter  | Result | Qualifier | Units | RL | MDL |
|--|--------|-----------|-------|----|-----|
| MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG870980-3 |        |           |       |    |     |

| Surrogate             | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 103       |           | 70-130              |
| Toluene-d8            | 100       |           | 70-130              |
| 4-Bromofluorobenzene  | 96        |           | 70-130              |
| Dibromofluoromethane  | 106       |           | 70-130              |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: EASTHAM LANDFILL

Lab Number: L1604899

Project Number: 2015-038

Report Date: 03/08/16

| Parameter  | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG870980-1 WG870980-2 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride   | 103              |      | 102               |      | 70-130              | 1   |      | 20            |
| 1,1-Dichloroethane   | 107              |      | 106               |      | 70-130              | 1   |      | 20            |
| Chloroform   | 108              |      | 107               |      | 70-130              | 1   |      | 20            |
| Carbon tetrachloride   | 110              |      | 110               |      | 70-130              | 0   |      | 20            |
| 1,2-Dichloropropane  | 110              |      | 110               |      | 70-130              | 0   |      | 20            |
| Dibromochloromethane   | 101              |      | 102               |      | 70-130              | 1   |      | 20            |
| 1,1,2-Trichloroethane  | 97               |      | 97                |      | 70-130              | 0   |      | 20            |
| Tetrachloroethene  | 111              |      | 110               |      | 70-130              | 1   |      | 20            |
| Chlorobenzene  | 103              |      | 103               |      | 70-130              | 0   |      | 20            |
| Trichlorofluoromethane   | 108              |      | 105               |      | 70-130              | 3   |      | 20            |
| 1,2-Dichloroethane   | 106              |      | 105               |      | 70-130              | 1   |      | 20            |
| 1,1,1-Trichloroethane  | 110              |      | 110               |      | 70-130              | 0   |      | 20            |
| Bromodichloromethane   | 99               |      | 98                |      | 70-130              | 1   |      | 20            |
| trans-1,3-Dichloropropene  | 102              |      | 101               |      | 70-130              | 1   |      | 20            |
| cis-1,3-Dichloropropene  | 114              |      | 114               |      | 70-130              | 0   |      | 20            |
| 1,1-Dichloropropene  | 110              |      | 108               |      | 70-130              | 2   |      | 20            |
| Bromoform  | 95               |      | 93                |      | 70-130              | 2   |      | 20            |
| 1,1,2,2-Tetrachloroethane  | 84               |      | 82                |      | 70-130              | 2   |      | 20            |
| Benzene  | 107              |      | 105               |      | 70-130              | 2   |      | 20            |
| Toluene  | 96               |      | 95                |      | 70-130              | 1   |      | 20            |
| Ethylbenzene   | 104              |      | 104               |      | 70-130              | 0   |      | 20            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: EASTHAM LANDFILL

Lab Number: L1604899

Project Number: 2015-038

Report Date: 03/08/16

| Parameter  | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG870980-1 WG870980-2 |                  |      |                   |      |                     |     |      |               |
| Chloromethane  | 113              |      | 111               |      | 70-130              | 2   |      | 20            |
| Bromomethane   | 83               |      | 76                |      | 70-130              | 9   |      | 20            |
| Vinyl chloride   | 118              |      | 116               |      | 70-130              | 2   |      | 20            |
| Chloroethane   | 113              |      | 111               |      | 70-130              | 2   |      | 20            |
| 1,1-Dichloroethene   | 102              |      | 102               |      | 70-130              | 0   |      | 20            |
| trans-1,2-Dichloroethene   | 103              |      | 101               |      | 70-130              | 2   |      | 20            |
| Trichloroethene  | 107              |      | 105               |      | 70-130              | 2   |      | 20            |
| 1,2-Dichlorobenzene  | 101              |      | 99                |      | 70-130              | 2   |      | 20            |
| 1,3-Dichlorobenzene  | 106              |      | 103               |      | 70-130              | 3   |      | 20            |
| 1,4-Dichlorobenzene  | 103              |      | 102               |      | 70-130              | 1   |      | 20            |
| Methyl tert butyl ether  | 95               |      | 94                |      | 70-130              | 1   |      | 20            |
| p/m-Xylene   | 108              |      | 106               |      | 70-130              | 2   |      | 20            |
| o-Xylene   | 106              |      | 107               |      | 70-130              | 1   |      | 20            |
| cis-1,2-Dichloroethene   | 103              |      | 102               |      | 70-130              | 1   |      | 20            |
| Dibromomethane   | 103              |      | 102               |      | 70-130              | 1   |      | 20            |
| 1,2,3-Trichloropropane   | 87               |      | 84                |      | 70-130              | 4   |      | 20            |
| Styrene  | 104              |      | 105               |      | 70-130              | 1   |      | 20            |
| Dichlorodifluoromethane  | 110              |      | 108               |      | 70-130              | 2   |      | 20            |
| Acetone  | 96               |      | 87                |      | 70-130              | 10  |      | 20            |
| Carbon disulfide   | 103              |      | 102               |      | 70-130              | 1   |      | 20            |
| 2-Butanone   | 91               |      | 90                |      | 70-130              | 1   |      | 20            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: EASTHAM LANDFILL

Lab Number: L1604899

Project Number: 2015-038

Report Date: 03/08/16

| Parameter  | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG870980-1 WG870980-2 |                  |      |                   |      |                     |     |      |               |
| 4-Methyl-2-pentanone   | 78               |      | 79                |      | 70-130              | 1   |      | 20            |
| 2-Hexanone   | 78               |      | 78                |      | 70-130              | 0   |      | 20            |
| Bromochloromethane   | 122              |      | 120               |      | 70-130              | 2   |      | 20            |
| Tetrahydrofuran  | 93               |      | 79                |      | 70-130              | 16  |      | 20            |
| 2,2-Dichloropropane  | 108              |      | 106               |      | 70-130              | 2   |      | 20            |
| 1,2-Dibromoethane  | 95               |      | 96                |      | 70-130              | 1   |      | 20            |
| 1,3-Dichloropropane  | 98               |      | 99                |      | 70-130              | 1   |      | 20            |
| 1,1,1,2-Tetrachloroethane  | 106              |      | 108               |      | 70-130              | 2   |      | 20            |
| Bromobenzene   | 102              |      | 102               |      | 70-130              | 0   |      | 20            |
| n-Butylbenzene   | 113              |      | 114               |      | 70-130              | 1   |      | 20            |
| sec-Butylbenzene   | 114              |      | 113               |      | 70-130              | 1   |      | 20            |
| tert-Butylbenzene  | 110              |      | 109               |      | 70-130              | 1   |      | 20            |
| o-Chlorotoluene  | 100              |      | 98                |      | 70-130              | 2   |      | 20            |
| p-Chlorotoluene  | 100              |      | 97                |      | 70-130              | 3   |      | 20            |
| 1,2-Dibromo-3-chloropropane  | 71               |      | 74                |      | 70-130              | 4   |      | 20            |
| Hexachlorobutadiene  | 127              |      | 126               |      | 70-130              | 1   |      | 20            |
| Isopropylbenzene   | 109              |      | 108               |      | 70-130              | 1   |      | 20            |
| p-Isopropyltoluene   | 113              |      | 114               |      | 70-130              | 1   |      | 20            |
| Naphthalene  | 70               |      | 67                | Q    | 70-130              | 4   |      | 20            |
| n-Propylbenzene  | 104              |      | 103               |      | 70-130              | 1   |      | 20            |
| 1,2,3-Trichlorobenzene   | 82               |      | 79                |      | 70-130              | 4   |      | 20            |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: EASTHAM LANDFILL

Lab Number: L1604899

Project Number: 2015-038

Report Date: 03/08/16

| Parameter  | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG870980-1 WG870980-2 |                  |      |                   |      |                     |     |      |               |
| 1,2,4-Trichlorobenzene   | 99               |      | 96                |      | 70-130              | 3   |      | 20            |
| 1,3,5-Trimethylbenzene   | 108              |      | 105               |      | 70-130              | 3   |      | 20            |
| 1,2,4-Trimethylbenzene   | 107              |      | 106               |      | 70-130              | 1   |      | 20            |
| Ethyl ether  | 98               |      | 98                |      | 70-130              | 0   |      | 20            |
| Isopropyl Ether  | 105              |      | 104               |      | 70-130              | 1   |      | 20            |
| Ethyl-Tert-Butyl-Ether   | 100              |      | 99                |      | 70-130              | 1   |      | 20            |
| Tertiary-Amyl Methyl Ether   | 98               |      | 98                |      | 70-130              | 0   |      | 20            |
| 1,4-Dioxane  | 101              |      | 106               |      | 70-130              | 5   |      | 20            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 99               |      | 100               |      | 70-130                 |
| Toluene-d8            | 100              |      | 101               |      | 70-130                 |
| 4-Bromofluorobenzene  | 97               |      | 95                |      | 70-130                 |
| Dibromofluoromethane  | 104              |      | 104               |      | 70-130                 |

# SEMIVOLATILES

**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

**SAMPLE RESULTS**

Lab ID: L1604899-01  
 Client ID: MW-3I  
 Sample Location: EASTHAM, MA  
 Matrix: Water  
 Analytical Method: 97,8270D-SIM  
 Analytical Date: 02/27/16 19:58  
 Analyst: SF

Date Collected: 02/23/16 11:00  
 Date Received: 02/23/16  
 Field Prep: Field Filtered (Metals)  
 Extraction Method: EPA 3510C  
 Extraction Date: 02/26/16 10:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-----------|--------|-----------|-------|----|-----|-----------------|
|-----------|--------|-----------|-------|----|-----|-----------------|

MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab

|             |    |  |      |       |        |   |
|-------------|----|--|------|-------|--------|---|
| 1,4-Dioxane | ND |  | ug/l | 0.147 | 0.0735 | 1 |
|-------------|----|--|------|-------|--------|---|

| Surrogate      | % Recovery | Qualifier | Acceptance Criteria |
|----------------|------------|-----------|---------------------|
| 1,4-Dioxane-d8 | 33         |           | 15-110              |

**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

**SAMPLE RESULTS**

Lab ID: L1604899-02  
 Client ID: MW-3D  
 Sample Location: EASTHAM, MA  
 Matrix: Water  
 Analytical Method: 97,8270D-SIM  
 Analytical Date: 02/27/16 20:45  
 Analyst: SF

Date Collected: 02/23/16 11:00  
 Date Received: 02/23/16  
 Field Prep: Field Filtered (Metals)  
 Extraction Method: EPA 3510C  
 Extraction Date: 02/26/16 10:30

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-----------|--------|-----------|-------|----|-----|-----------------|
|-----------|--------|-----------|-------|----|-----|-----------------|

MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab

|             |      |  |      |       |        |   |
|-------------|------|--|------|-------|--------|---|
| 1,4-Dioxane | 7.23 |  | ug/l | 0.147 | 0.0735 | 1 |
|-------------|------|--|------|-------|--------|---|

| Surrogate      | % Recovery | Qualifier | Acceptance Criteria |
|----------------|------------|-----------|---------------------|
| 1,4-Dioxane-d8 | 35         |           | 15-110              |

Project Name: EASTHAM LANDFILL

Lab Number: L1604899

Project Number: 2015-038

Report Date: 03/08/16

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 97,8270D-SIM

Extraction Method: EPA 3510C

Analytical Date: 02/27/16 16:54

Extraction Date: 02/26/16 10:30

Analyst: SF

| Parameter   | Result | Qualifier | Units | RL    | MDL    |
|---|--------|-----------|-------|-------|--------|
| MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01-02 Batch: WG868589-1 |        |           |       |       |        |
| 1,4-Dioxane   | ND     |           | ug/l  | 0.150 | 0.0750 |

| Surrogate      | %Recovery | Qualifier | Acceptance<br>Criteria |
|----------------|-----------|-----------|------------------------|
| 1,4-Dioxane-d8 | 34        |           | 15-110                 |

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

| <b>Parameter</b>  | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>%Recovery<br/>Limits</b> | <b>RPD</b> | <b>Qual</b> | <b>RPD<br/>Limits</b> |
|---|--------------------------|-------------|---------------------------|-------------|-----------------------------|------------|-------------|-----------------------|
| MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01-02 Batch: WG868589-2 WG868589-3 |                          |             |                           |             |                             |            |             |                       |
| 1,4-Dioxane   | 96                       |             | 98                        |             | 40-140                      | 2          |             | 20                    |

| <b>Surrogate</b> | <b>LCS<br/>%Recovery</b> | <b>Qual</b> | <b>LCSD<br/>%Recovery</b> | <b>Qual</b> | <b>Acceptance<br/>Criteria</b> |
|------------------|--------------------------|-------------|---------------------------|-------------|--------------------------------|
| 1,4-Dioxane-d8   | 39                       |             | 38                        |             | 15-110                         |

## METALS

**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

**SAMPLE RESULTS**

Lab ID: L1604899-01  
 Client ID: MW-3I  
 Sample Location: EASTHAM, MA  
 Matrix: Water

Date Collected: 02/23/16 11:00  
 Date Received: 02/23/16  
 Field Prep: Field Filtered  
 (Metals)

| Parameter                                     | Result | Qualifier | Units | RL     | MDL    | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|---|--------|-----------|-------|--------|--------|-----------------|----------------|----------------|-------------|-------------------|---------|
| <b>MCP Dissolved Metals - Westborough Lab</b> |        |           |       |        |        |                 |                |                |             |                   |         |
| Arsenic, Dissolved                            | 0.043  |           | mg/l  | 0.005  | 0.002  | 1               | 02/24/16 09:35 | 02/29/16 23:59 | EPA 3005A   | 97,6010C          | PS      |
| Barium, Dissolved                             | 0.009  | J         | mg/l  | 0.010  | 0.003  | 1               | 02/24/16 09:35 | 02/29/16 23:59 | EPA 3005A   | 97,6010C          | PS      |
| Cadmium, Dissolved                            | ND     |           | mg/l  | 0.004  | 0.001  | 1               | 02/24/16 09:35 | 02/29/16 23:59 | EPA 3005A   | 97,6010C          | PS      |
| Chromium, Dissolved                           | ND     |           | mg/l  | 0.01   | 0.002  | 1               | 02/24/16 09:35 | 02/29/16 23:59 | EPA 3005A   | 97,6010C          | PS      |
| Copper, Dissolved                             | ND     |           | mg/l  | 0.010  | 0.002  | 1               | 02/24/16 09:35 | 02/29/16 23:59 | EPA 3005A   | 97,6010C          | PS      |
| Iron, Dissolved                               | 56     |           | mg/l  | 0.05   | 0.02   | 1               | 02/24/16 09:35 | 02/29/16 23:59 | EPA 3005A   | 97,6010C          | PS      |
| Lead, Dissolved                               | ND     |           | mg/l  | 0.010  | 0.002  | 1               | 02/24/16 09:35 | 02/29/16 23:59 | EPA 3005A   | 97,6010C          | PS      |
| Manganese, Dissolved                          | 1.05   |           | mg/l  | 0.010  | 0.002  | 1               | 02/24/16 09:35 | 02/29/16 23:59 | EPA 3005A   | 97,6010C          | PS      |
| Mercury, Dissolved                            | ND     |           | mg/l  | 0.0002 | 0.0002 | 1               | 02/26/16 12:04 | 03/01/16 20:11 | EPA 7470A   | 97,7470A          | EA      |
| Selenium, Dissolved                           | ND     |           | mg/l  | 0.010  | 0.003  | 1               | 02/24/16 09:35 | 02/29/16 23:59 | EPA 3005A   | 97,6010C          | PS      |
| Silver, Dissolved                             | ND     |           | mg/l  | 0.007  | 0.002  | 1               | 02/24/16 09:35 | 02/29/16 23:59 | EPA 3005A   | 97,6010C          | PS      |
| Zinc, Dissolved                               | 0.009  | J         | mg/l  | 0.050  | 0.007  | 1               | 02/24/16 09:35 | 02/29/16 23:59 | EPA 3005A   | 97,6010C          | PS      |



**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

**SAMPLE RESULTS**

**Lab ID:** L1604899-02  
**Client ID:** MW-3D  
**Sample Location:** EASTHAM, MA  
**Matrix:** Water

**Date Collected:** 02/23/16 11:00  
**Date Received:** 02/23/16  
**Field Prep:** Field Filtered  
(Metals)

| Parameter                                     | Result | Qualifier | Units | RL     | MDL    | Dilution Factor | Date Prepared  | Date Analyzed  | Prep Method | Analytical Method | Analyst |
|---|--------|-----------|-------|--------|--------|-----------------|----------------|----------------|-------------|-------------------|---------|
| <b>MCP Dissolved Metals - Westborough Lab</b> |        |           |       |        |        |                 |                |                |             |                   |         |
| Arsenic, Dissolved                            | 0.069  |           | mg/l  | 0.005  | 0.002  | 1               | 02/24/16 09:35 | 03/01/16 00:03 | EPA 3005A   | 97,6010C          | PS      |
| Barium, Dissolved                             | 0.060  |           | mg/l  | 0.010  | 0.003  | 1               | 02/24/16 09:35 | 03/01/16 00:03 | EPA 3005A   | 97,6010C          | PS      |
| Cadmium, Dissolved                            | ND     |           | mg/l  | 0.004  | 0.001  | 1               | 02/24/16 09:35 | 03/01/16 00:03 | EPA 3005A   | 97,6010C          | PS      |
| Chromium, Dissolved                           | ND     |           | mg/l  | 0.01   | 0.002  | 1               | 02/24/16 09:35 | 03/01/16 00:03 | EPA 3005A   | 97,6010C          | PS      |
| Copper, Dissolved                             | ND     |           | mg/l  | 0.010  | 0.002  | 1               | 02/24/16 09:35 | 03/01/16 00:03 | EPA 3005A   | 97,6010C          | PS      |
| Iron, Dissolved                               | 27     |           | mg/l  | 0.05   | 0.02   | 1               | 02/24/16 09:35 | 03/01/16 00:03 | EPA 3005A   | 97,6010C          | PS      |
| Lead, Dissolved                               | ND     |           | mg/l  | 0.010  | 0.002  | 1               | 02/24/16 09:35 | 03/01/16 00:03 | EPA 3005A   | 97,6010C          | PS      |
| Manganese, Dissolved                          | 0.970  |           | mg/l  | 0.010  | 0.002  | 1               | 02/24/16 09:35 | 03/01/16 00:03 | EPA 3005A   | 97,6010C          | PS      |
| Mercury, Dissolved                            | ND     |           | mg/l  | 0.0002 | 0.0002 | 1               | 02/26/16 12:04 | 03/01/16 20:13 | EPA 7470A   | 97,7470A          | EA      |
| Selenium, Dissolved                           | ND     |           | mg/l  | 0.010  | 0.003  | 1               | 02/24/16 09:35 | 03/01/16 00:03 | EPA 3005A   | 97,6010C          | PS      |
| Silver, Dissolved                             | ND     |           | mg/l  | 0.007  | 0.002  | 1               | 02/24/16 09:35 | 03/01/16 00:03 | EPA 3005A   | 97,6010C          | PS      |
| Zinc, Dissolved                               | ND     |           | mg/l  | 0.050  | 0.007  | 1               | 02/24/16 09:35 | 03/01/16 00:03 | EPA 3005A   | 97,6010C          | PS      |



**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

## Method Blank Analysis Batch Quality Control

| Parameter   | Result | Qualifier | Units | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Analytical Method | Analyst |
|---|--------|-----------|-------|-------|-------|-----------------|----------------|----------------|-------------------|---------|
| MCP Dissolved Metals - Westborough Lab for sample(s): 01-02 Batch: WG867859-1 |        |           |       |       |       |                 |                |                |                   |         |
| Arsenic, Dissolved  | 0.003  | J         | mg/l  | 0.005 | 0.002 | 1               | 02/24/16 09:35 | 02/29/16 23:12 | 97,6010C          | PS      |
| Barium, Dissolved   | ND     |           | mg/l  | 0.010 | 0.003 | 1               | 02/24/16 09:35 | 02/29/16 23:12 | 97,6010C          | PS      |
| Cadmium, Dissolved  | ND     |           | mg/l  | 0.004 | 0.001 | 1               | 02/24/16 09:35 | 02/29/16 23:12 | 97,6010C          | PS      |
| Chromium, Dissolved   | ND     |           | mg/l  | 0.01  | 0.002 | 1               | 02/24/16 09:35 | 02/29/16 23:12 | 97,6010C          | PS      |
| Copper, Dissolved   | ND     |           | mg/l  | 0.010 | 0.002 | 1               | 02/24/16 09:35 | 02/29/16 23:12 | 97,6010C          | PS      |
| Iron, Dissolved   | ND     |           | mg/l  | 0.05  | 0.02  | 1               | 02/24/16 09:35 | 02/29/16 23:12 | 97,6010C          | PS      |
| Lead, Dissolved   | ND     |           | mg/l  | 0.010 | 0.002 | 1               | 02/24/16 09:35 | 02/29/16 23:12 | 97,6010C          | PS      |
| Manganese, Dissolved  | ND     |           | mg/l  | 0.010 | 0.002 | 1               | 02/24/16 09:35 | 02/29/16 23:12 | 97,6010C          | PS      |
| Selenium, Dissolved   | ND     |           | mg/l  | 0.010 | 0.003 | 1               | 02/24/16 09:35 | 02/29/16 23:12 | 97,6010C          | PS      |
| Silver, Dissolved   | ND     |           | mg/l  | 0.007 | 0.002 | 1               | 02/24/16 09:35 | 02/29/16 23:12 | 97,6010C          | PS      |
| Zinc, Dissolved   | ND     |           | mg/l  | 0.050 | 0.007 | 1               | 02/24/16 09:35 | 02/29/16 23:12 | 97,6010C          | PS      |

### Prep Information

Digestion Method: EPA 3005A

| Parameter   | Result | Qualifier | Units | RL     | MDL    | Dilution Factor | Date Prepared  | Date Analyzed  | Analytical Method | Analyst |
|---|--------|-----------|-------|--------|--------|-----------------|----------------|----------------|-------------------|---------|
| MCP Dissolved Metals - Westborough Lab for sample(s): 01-02 Batch: WG868699-1 |        |           |       |        |        |                 |                |                |                   |         |
| Mercury, Dissolved  | ND     |           | mg/l  | 0.0002 | 0.0002 | 1               | 02/26/16 12:04 | 03/01/16 20:05 | 97,7470A          | EA      |

### Prep Information

Digestion Method: EPA 7470A

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: EASTHAM LANDFILL

Project Number: 2015-038

Lab Number: L1604899

Report Date: 03/08/16

| Parameter   | LCS       |      | LCSD      |      | %Recovery Limits | RPD | Qual | RPD Limits |
|---|-----------|------|-----------|------|------------------|-----|------|------------|
|   | %Recovery | Qual | %Recovery | Qual |                  |     |      |            |
| MCP Dissolved Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG867859-2 WG867859-3 |           |      |           |      |                  |     |      |            |
| Arsenic, Dissolved  | 95        |      | 98        |      | 80-120           | 3   |      | 20         |
| Barium, Dissolved   | 81        |      | 86        |      | 80-120           | 6   |      | 20         |
| Cadmium, Dissolved  | 89        |      | 95        |      | 80-120           | 7   |      | 20         |
| Chromium, Dissolved   | 85        |      | 90        |      | 80-120           | 6   |      | 20         |
| Copper, Dissolved   | 84        |      | 90        |      | 80-120           | 7   |      | 20         |
| Iron, Dissolved   | 81        |      | 85        |      | 80-120           | 5   |      | 20         |
| Lead, Dissolved   | 92        |      | 95        |      | 80-120           | 3   |      | 20         |
| Manganese, Dissolved  | 81        |      | 86        |      | 80-120           | 6   |      | 20         |
| Selenium, Dissolved   | 95        |      | 98        |      | 80-120           | 3   |      | 20         |
| Silver, Dissolved   | 85        |      | 90        |      | 80-120           | 6   |      | 20         |
| Zinc, Dissolved   | 89        |      | 95        |      | 80-120           | 7   |      | 20         |
| MCP Dissolved Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG868699-2 WG868699-3 |           |      |           |      |                  |     |      |            |
| Mercury, Dissolved  | 117       |      | 109       |      | 80-120           | 7   |      | 20         |

# **INORGANICS & MISCELLANEOUS**

**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

**SAMPLE RESULTS**

**Lab ID:** L1604899-01  
**Client ID:** MW-3I  
**Sample Location:** EASTHAM, MA  
**Matrix:** Water

**Date Collected:** 02/23/16 11:00  
**Date Received:** 02/23/16  
**Field Prep:** Field Filtered (Metals)

| Parameter                                      | Result | Qualifier | Units      | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Analytical Method | Analyst |
|--|--------|-----------|------------|-------|-------|-----------------|----------------|----------------|-------------------|---------|
| <b>MCP General Chemistry - Westborough Lab</b> |        |           |            |       |       |                 |                |                |                   |         |
| Cyanide, Total                                 | ND     |           | mg/l       | 0.005 | 0.005 | 1               | 02/25/16 09:48 | 02/25/16 17:50 | 97,9014           | JO      |
| <b>General Chemistry - Westborough Lab</b>     |        |           |            |       |       |                 |                |                |                   |         |
| Alkalinity, Total                              | 111.   |           | mg CaCO3/L | 2.00  | NA    | 1               | -              | 02/28/16 09:59 | 30,2320B          | SG      |
| Solids, Total Dissolved                        | 210    |           | mg/l       | 10    | 3.6   | 1               | -              | 02/25/16 13:55 | 30,2540C          | DW      |
| Chloride                                       | 10.    |           | mg/l       | 1.0   | 0.20  | 1               | -              | 02/29/16 10:17 | 1,9251            | ML      |
| Nitrogen, Nitrate                              | 0.155  |           | mg/l       | 0.100 | 0.018 | 1               | -              | 02/23/16 22:09 | 30,4500NO3-F      | MR      |
| Sulfate  | 29.    |           | mg/l       | 20    | 6.2   | 2               | 02/26/16 15:15 | 02/26/16 15:15 | 1,9038            | AW      |
| Chemical Oxygen Demand                         | 15.    | J         | mg/l       | 20    | 3.5   | 1               | 02/26/16 17:35 | 02/26/16 20:31 | 30,5220D          | TL      |



**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

**SAMPLE RESULTS**

**Lab ID:** L1604899-02  
**Client ID:** MW-3D  
**Sample Location:** EASTHAM, MA  
**Matrix:** Water

**Date Collected:** 02/23/16 11:00  
**Date Received:** 02/23/16  
**Field Prep:** Field Filtered (Metals)

| Parameter                                      | Result | Qualifier | Units      | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Analytical Method | Analyst |
|--|--------|-----------|------------|-------|-------|-----------------|----------------|----------------|-------------------|---------|
| <b>MCP General Chemistry - Westborough Lab</b> |        |           |            |       |       |                 |                |                |                   |         |
| Cyanide, Total                                 | ND     |           | mg/l       | 0.005 | 0.005 | 1               | 02/25/16 09:48 | 02/25/16 17:51 | 97,9014           | JO      |
| <b>General Chemistry - Westborough Lab</b>     |        |           |            |       |       |                 |                |                |                   |         |
| Alkalinity, Total                              | 563.   |           | mg CaCO3/L | 2.00  | NA    | 1               | -              | 02/28/16 09:59 | 30,2320B          | SG      |
| Solids, Total Dissolved                        | 540    |           | mg/l       | 10    | 3.6   | 1               | -              | 02/25/16 13:55 | 30,2540C          | DW      |
| Chloride                                       | 64.    |           | mg/l       | 1.0   | 0.20  | 1               | -              | 02/29/16 09:32 | 1,9251            | ML      |
| Nitrogen, Nitrate                              | 0.096  | J         | mg/l       | 0.100 | 0.018 | 1               | -              | 02/23/16 22:10 | 30,4500NO3-F      | MR      |
| Sulfate  | 52.    |           | mg/l       | 20    | 6.2   | 2               | 02/26/16 15:15 | 02/26/16 15:15 | 1,9038            | AW      |
| Chemical Oxygen Demand                         | 48.    |           | mg/l       | 20    | 3.5   | 1               | 02/26/16 17:35 | 02/26/16 20:32 | 30,5220D          | TL      |



**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

**Method Blank Analysis**  
**Batch Quality Control**

| Parameter  | Result | Qualifier | Units      | RL    | MDL   | Dilution Factor | Date Prepared  | Date Analyzed  | Analytical Method | Analyst |
|--|--------|-----------|------------|-------|-------|-----------------|----------------|----------------|-------------------|---------|
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG867725-1     |        |           |            |       |       |                 |                |                |                   |         |
| Nitrogen, Nitrate  | ND     |           | mg/l       | 0.100 | 0.018 | 1               | -              | 02/23/16 21:26 | 30,4500NO3-F      | MR      |
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG868184-1     |        |           |            |       |       |                 |                |                |                   |         |
| Solids, Total Dissolved  | ND     |           | mg/l       | 10    | 3.6   | 1               | -              | 02/25/16 13:55 | 30,2540C          | DW      |
| MCP General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG868280-1 |        |           |            |       |       |                 |                |                |                   |         |
| Cyanide, Total   | ND     |           | mg/l       | 0.005 | 0.005 | 1               | 02/25/16 09:48 | 02/25/16 17:22 | 97,9014           | JO      |
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG868606-1     |        |           |            |       |       |                 |                |                |                   |         |
| Sulfate  | ND     |           | mg/l       | 10    | 3.1   | 1               | 02/26/16 15:15 | 02/26/16 15:15 | 1,9038            | AW      |
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG868781-1     |        |           |            |       |       |                 |                |                |                   |         |
| Chemical Oxygen Demand   | ND     |           | mg/l       | 20    | 3.5   | 1               | 02/26/16 17:35 | 02/26/16 20:28 | 30,5220D          | TL      |
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG869061-1     |        |           |            |       |       |                 |                |                |                   |         |
| Alkalinity, Total  | ND     |           | mg CaCO3/L | 2.00  | NA    | 1               | -              | 02/28/16 09:59 | 30,2320B          | SG      |
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG869176-1     |        |           |            |       |       |                 |                |                |                   |         |
| Chloride   | 0.53   | J         | mg/l       | 1.0   | 0.20  | 1               | -              | 02/29/16 08:54 | 1,9251            | ML      |

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: EASTHAM LANDFILL

Project Number: 2015-038

Lab Number: L1604899

Report Date: 03/08/16

| Parameter  | LCS       |      | LCSD      |      | %Recovery Limits | RPD | Qual | RPD Limits |
|--|-----------|------|-----------|------|------------------|-----|------|------------|
|  | %Recovery | Qual | %Recovery | Qual |                  |     |      |            |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG867725-2                |           |      |           |      |                  |     |      |            |
| Nitrogen, Nitrate  | 94        |      | -         |      | 90-110           | -   |      |            |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG868184-2                |           |      |           |      |                  |     |      |            |
| Solids, Total Dissolved  | 94        |      | -         |      | 80-120           | -   |      |            |
| MCP General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG868280-2 WG868280-3 |           |      |           |      |                  |     |      |            |
| Cyanide, Total   | 113       |      | 112       |      | 80-120           | 1   |      | 20         |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG868606-2                |           |      |           |      |                  |     |      |            |
| Sulfate  | 90        |      | -         |      | 84-119           | -   |      |            |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG868781-2                |           |      |           |      |                  |     |      |            |
| Chemical Oxygen Demand   | 105       |      | -         |      | 93-106           | -   |      |            |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG869061-3                |           |      |           |      |                  |     |      |            |
| Alkalinity, Total  | 103       |      | -         |      | 90-110           | -   |      | 10         |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG869176-2                |           |      |           |      |                  |     |      |            |
| Chloride   | 100       |      | -         |      | 90-110           | -   |      |            |

**Matrix Spike Analysis**  
Batch Quality Control

Project Name: EASTHAM LANDFILL

Lab Number: L1604899

Project Number: 2015-038

Report Date: 03/08/16

| Parameter   | Native Sample | MS Added | MS Found | MS %Recovery | MSD Qual | MSD Found | MSD %Recovery | MSD Qual | Recovery Limits | RPD | RPD Qual | RPD Limits |
|---|---------------|----------|----------|--------------|----------|-----------|---------------|----------|-----------------|-----|----------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG868606-4 QC Sample: L1604899-01 Client ID: MW-3I |               |          |          |              |          |           |               |          |                 |     |          |            |
| Sulfate   | 29.           | 100      | 130      | 97           | -        | -         | -             | -        | 55-147          | -   | -        | 14         |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG868781-3 QC Sample: L1604899-02 Client ID: MW-3D |               |          |          |              |          |           |               |          |                 |     |          |            |
| Chemical Oxygen Demand  | 48.           | 238      | 290      | 102          | -        | -         | -             | -        | 84-120          | -   | -        | 12         |

## Lab Duplicate Analysis

Batch Quality Control

Project Name: EASTHAM LANDFILL

Project Number: 2015-038

Lab Number: L1604899

Report Date: 03/08/16

| Parameter   | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG868184-3 QC Sample: L1604899-01 Client ID: MW-3I |               |                  |       |     |      |            |
| Solids, Total Dissolved   | 210           | 200              | mg/l  | 5   |      | 17         |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG868606-3 QC Sample: L1604899-01 Client ID: MW-3I |               |                  |       |     |      |            |
| Sulfate   | 29.           | 31               | mg/l  | 7   |      | 14         |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG868781-4 QC Sample: L1604899-02 Client ID: MW-3D |               |                  |       |     |      |            |
| Chemical Oxygen Demand  | 48.           | 51               | mg/l  | 6   |      | 12         |

**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

### Sample Receipt and Container Information

Were project specific reporting limits specified? YES

#### Cooler Information Custody Seal

##### Cooler

A Absent

#### Container Information

| Container ID | Container Type                   | Cooler | pH  | Temp deg C | Pres | Seal   | Analysis(*)   |
|--------------|----------------------------------|--------|-----|------------|------|--------|---|
| L1604899-01A | Vial HCl preserved               | A      | N/A | 2.5        | Y    | Absent | MCP-8260-10(14)   |
| L1604899-01B | Vial HCl preserved               | A      | N/A | 2.5        | Y    | Absent | MCP-8260-10(14)   |
| L1604899-01C | Vial HCl preserved               | A      | N/A | 2.5        | Y    | Absent | MCP-8260-10(14)   |
| L1604899-01D | Plastic 120ml HNO3 preserved     | A      | <2  | 2.5        | Y    | Absent | MCP-CD-6010S-10(180),MCP-FE-6010S-10(180),MCP-7470S-10(28),MCP-AG-6010S-10(180),MCP-ZN-6010S-10(180),MCP-AS-6010S-10(180),MCP-CR-6010S-10(180),MCP-BA-6010S-10(180),MCP-MN-6010S-10(180),MCP-PB-6010S-10(180),MCP-CU-6010S-10(180),MCP-SE-6010S-10(180) |
| L1604899-01E | Plastic 120ml H2SO4 preserved    | A      | <2  | 2.5        | Y    | Absent | COD-5220(28)  |
| L1604899-01F | Plastic 250ml NaOH preserved     | A      | >12 | 2.5        | Y    | Absent | MCP-TCN9014-10(14)  |
| L1604899-01G | Plastic 500ml unpreserved        | A      | 7   | 2.5        | Y    | Absent | CL-9251(28),SO4-9038(28),NO3-4500(2),TDS-2540(7)  |
| L1604899-01H | Amber 500ml unpreserved          | A      | 7   | 2.5        | Y    | Absent | A2-MCP-14DX-SIM-PPB(7)  |
| L1604899-01I | Amber 500ml unpreserved          | A      | 7   | 2.5        | Y    | Absent | A2-MCP-14DX-SIM-PPB(7)  |
| L1604899-01J | Plastic 250ml unpreserved w/No H | A      | N/A | 2.5        | Y    | Absent | ALK-T-2320(14)  |
| L1604899-02A | Vial HCl preserved               | A      | N/A | 2.5        | Y    | Absent | MCP-8260-10(14)   |
| L1604899-02B | Vial HCl preserved               | A      | N/A | 2.5        | Y    | Absent | MCP-8260-10(14)   |
| L1604899-02C | Vial HCl preserved               | A      | N/A | 2.5        | Y    | Absent | MCP-8260-10(14)   |
| L1604899-02D | Plastic 120ml HNO3 preserved     | A      | <2  | 2.5        | Y    | Absent | MCP-CD-6010S-10(180),MCP-FE-6010S-10(180),MCP-7470S-10(28),MCP-AG-6010S-10(180),MCP-ZN-6010S-10(180),MCP-AS-6010S-10(180),MCP-CR-6010S-10(180),MCP-BA-6010S-10(180),MCP-MN-6010S-10(180),MCP-PB-6010S-10(180),MCP-CU-6010S-10(180),MCP-SE-6010S-10(180) |
| L1604899-02E | Plastic 120ml H2SO4 preserved    | A      | <2  | 2.5        | Y    | Absent | COD-5220(28)  |
| L1604899-02F | Plastic 250ml NaOH preserved     | A      | >12 | 2.5        | Y    | Absent | MCP-TCN9014-10(14)  |

\*Values in parentheses indicate holding time in days



**Project Name:** EASTHAM LANDFILL**Project Number:** 2015-038**Lab Number:** L1604899**Report Date:** 03/08/16**Container Information**

| <b>Container ID</b> | <b>Container Type</b>            | <b>Cooler</b> | <b>pH</b> | <b>Temp deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Analysis(*)</b>                               |
|---------------------|----------------------------------|---------------|-----------|-------------------|-------------|-------------|--|
| L1604899-02G        | Plastic 500ml unpreserved        | A             | 7         | 2.5               | Y           | Absent      | CL-9251(28),SO4-9038(28),NO3-4500(2),TDS-2540(7) |
| L1604899-02H        | Amber 500ml unpreserved          | A             | 7         | 2.5               | Y           | Absent      | A2-MCP-14DX-SIM-PPB(7)                           |
| L1604899-02I        | Amber 500ml unpreserved          | A             | 7         | 2.5               | Y           | Absent      | A2-MCP-14DX-SIM-PPB(7)                           |
| L1604899-02J        | Plastic 250ml unpreserved w/No H | A             | N/A       | 2.5               | Y           | Absent      | ALK-T-2320(14)                                   |

\*Values in parentheses indicate holding time in days

**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

## GLOSSARY

### Acronyms

|       |   |
|-------|---|
| EDL   | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).                        |
| EPA   | - Environmental Protection Agency.  |
| LCS   | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.   |
| LCS D | - Laboratory Control Sample Duplicate: Refer to LCS.  |
| LFB   | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.  |
| MDL   | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.   |
| MS    | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.  |
| MS D  | - Matrix Spike Sample Duplicate: Refer to MS.   |
| NA    | - Not Applicable.   |
| NC    | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.  |
| NI    | - Not Ignitable.  |
| NP    | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.   |
| RL    | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.  |
| RPD   | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM   | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.  |
| STLP  | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.   |
| TIC   | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.   |

### Footnotes

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

### Terms

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

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

### Data Qualifiers

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

**Report Format:** DU Report with 'J' Qualifiers



**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

#### Data Qualifiers

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** EASTHAM LANDFILL  
**Project Number:** 2015-038

**Lab Number:** L1604899  
**Report Date:** 03/08/16

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

## LIMITATION OF LIABILITIES

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

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



## Certification Information

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

### Westborough Facility

**EPA 524.2:** 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene

**EPA 624:** 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene

**EPA 625:** Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.

**EPA 1010A:** NPW: Ignitability

**EPA 6010C:** NPW: Strontium; SCM: Strontium

**EPA 8151A:** NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP

**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D:** NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 9010:** NPW: Amenable Cyanide Distillation, Total Cyanide Distillation

**EPA 9038:** NPW: Sulfate

**EPA 9050A:** NPW: Specific Conductance

**EPA 9056:** NPW: Chloride, Nitrate, Sulfate

**EPA 9065:** NPW: Phenols

**EPA 9251:** NPW: Chloride

**SM3500:** NPW: Ferrous Iron

**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**SM5310C:** DW: Dissolved Organic Carbon

### Mansfield Facility

**EPA 8270D:** NPW: Biphenyl; SCM: Biphenyl, Caprolactam

**EPA 8270D-SIM Isotope Dilution:** SCM: 1,4-Dioxane

**SM 2540D:** TSS

**SM2540G:** SCM: Percent Solids

**EPA 1631E:** SCM: Mercury

**EPA 7474:** SCM: Mercury

**EPA 8081B:** NPW and SCM: Mirex, Hexachlorobenzene.

**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

**EPA 8270-SIM:** NPW and SCM: Alkylated PAHs.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.

**Biological Tissue Matrix:** **8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:** Lead; **8270D:** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1,**

**SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA**

**350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**

**EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D,**

**EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

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









7A  
Volatile Organics CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1604899

Instrument ID: Voall6.i      Calibration Date: 04-MAR-2016      Time: 18:29

Lab File ID: 0304N02      Init. Calib. Date(s): 24-FEB-2      25-FEB-2

Sample No: 8260 CCAL      Init. Calib. Times : 23:48      09:43

| Compound                   | RRF    | RRF    | MIN<br>RRF | %D    | MAX<br>%D |
|----------------------------|--------|--------|------------|-------|-----------|
| =====                      | =====  | =====  | =====      | ===== | =====     |
| dichlorodifluoromethane    | .27153 | .29795 | .1         | 10    | 20        |
| chloromethane              | .29    | .32751 | .1         | 13    | 20        |
| vinyl chloride             | .28061 | .33165 | .1         | 18    | 20        |
| bromomethane               | .15458 | .12879 | .1         | -17   | 20        |
| chloroethane               | .17183 | .19463 | .1         | 13    | 20        |
| trichlorofluoromethane     | .32896 | .35491 | .1         | 8     | 20        |
| ethyl ether                | .13663 | .13361 | .05        | -2    | 20        |
| 1,1,-dichloroethene        | .21936 | .22304 | .1         | 2     | 20        |
| carbon disulfide           | .7518  | .77557 | .1         | 3     | 20        |
| methylene chloride         | .25014 | .25821 | .1         | 3     | 20        |
| acetone                    | 100    | 95.757 | .1         | -4    | 20        |
| trans-1,2-dichloroethene   | .24313 | .25047 | .1         | 3     | 20        |
| methyl tert butyl ether    | .61635 | .58486 | .1         | -5    | 20        |
| Diisopropyl Ether          | .79762 | .83786 | .05        | 5     | 20        |
| 1,1-dichloroethane         | .4589  | .49193 | .2         | 7     | 20        |
| Ethyl-Tert-Butyl-Ether     | .74673 | .74511 | .05        | 0     | 20        |
| cis-1,2-dichloroethene     | .26319 | .27171 | .1         | 3     | 20        |
| 2,2-dichloropropane        | .39939 | .431   | .05        | 8     | 20        |
| bromochloromethane         | .09031 | .10974 | .05        | 22    | 20        |
| chloroform                 | .34156 | .36978 | .2         | 8     | 20        |
| carbontetrachloride        | .24895 | .274   | .1         | 10    | 20        |
| tetrahydrofuran            | 100    | 92.681 | .05        | -7    | 20        |
| 1,1,1-trichloroethane      | .28628 | .31526 | .1         | 10    | 20        |
| 2-butanone                 | 100    | 91.202 | .1         | -9    | 20        |
| 1,1-dichloropropene        | .26643 | .29229 | .05        | 10    | 20        |
| benzene                    | .82963 | .89002 | .5         | 7     | 20        |
| Tertiary-Amyl Methyl Ether | .53074 | .52118 | .05        | -2    | 20        |
| 1,2-dichloroethane         | .23661 | .25206 | .1         | 7     | 20        |
| trichloroethene            | .20537 | .21959 | .2         | 7     | 20        |
| dibromomethane             | .11022 | .11326 | .05        | 3     | 20        |
| 1,2-dichloropropane        | .23199 | .25648 | .1         | 11    | 20        |
| bromodichloromethane       | .23827 | .23683 | .2         | -1    | 20        |
| 1,4-dioxane                | 5000   | 5030   | .05        | 1     | 20        |
| cis-1,3-dichloropropene    | .33344 | .38098 | .2         | 14    | 20        |
| toluene                    | .7354  | .70468 | .4         | -4    | 20        |
| 4-methyl-2-pentanone       | 100    | 78.106 | .1         | -22   | 20        |
| tetrachloroethene          | .26359 | .29273 | .2         | 11    | 20        |
| trans-1,3-dichloropropene  | .37562 | .38437 | .1         | 2     | 20        |

F

F

FORM VII MCP-8260-10

7A  
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1604899

Instrument ID: Voall6.i      Calibration Date: 04-MAR-2016      Time: 18:29

Lab File ID: 0304N02      Init. Calib. Date(s): 24-FEB-2      25-FEB-2

Sample No: 8260 CCAL      Init. Calib. Times : 23:48      09:43

| Compound                    | RRF    | RRF    | MIN<br>RRF | %D  | MAX<br>%D |   |
|-----------------------------|--------|--------|------------|-----|-----------|---|
| 1,1,2-trichloroethane       | .19158 | .18521 | .1         | -3  | 20        |   |
| chlorodibromomethane        | .2401  | .24365 | .1         | 1   | 20        |   |
| 1,3-dichloropropane         | .39377 | .38623 | .05        | -2  | 20        |   |
| 1,2-dibromoethane           | .21159 | .2019  | .1         | -5  | 20        |   |
| 2-hexanone                  | 100    | 78.157 | .1         | -22 | 20        | F |
| chlorobenzene               | .73034 | .75377 | .5         | 3   | 20        |   |
| ethyl benzene               | 1.2976 | 1.3498 | .1         | 4   | 20        |   |
| 1,1,1,2-tetrachloroethane   | .24083 | .25545 | .05        | 6   | 20        |   |
| p/m xylene                  | .4796  | .51616 | .1         | 8   | 20        |   |
| o xylene                    | .45116 | .48008 | .3         | 6   | 20        |   |
| styrene                     | .74335 | .77667 | .31        | 4   | 20        |   |
| bromoform                   | .29892 | .28479 | .1         | -5  | 20        |   |
| isopropylbenzene            | 1.1975 | 1.3084 | .1         | 9   | 20        |   |
| bromobenzene                | .55791 | .56986 | .05        | 2   | 20        |   |
| n-propylbenzene             | 3.0401 | 3.1754 | .05        | 4   | 20        |   |
| 1,1,2,2,-tetrachloroethane  | .59905 | .50298 | .3         | -16 | 20        |   |
| 2-chlorotoluene             | 1.8617 | 1.8584 | .05        | 0   | 20        |   |
| 1,2,3-trichloropropane      | .4693  | .40976 | .05        | -13 | 20        |   |
| 1,3,5-trimethylbenzene      | 1.9384 | 2.0897 | .05        | 8   | 20        |   |
| 4-chorotoluene              | 1.8312 | 1.8384 | .05        | 0   | 20        |   |
| tert-butylbenzene           | 1.5882 | 1.7470 | .05        | 10  | 20        |   |
| 1,2,4-trimethylbenzene      | 1.8909 | 2.0200 | .05        | 7   | 20        |   |
| sec-butylbenzene            | 2.3883 | 2.7257 | .05        | 14  | 20        |   |
| p-isopropyltoluene          | 1.8128 | 2.0556 | .05        | 13  | 20        |   |
| 1,3-dichlorobenzene         | 1.0545 | 1.1158 | .6         | 6   | 20        |   |
| 1,4-dichlorobenzene         | 1.0643 | 1.0992 | .5         | 3   | 20        |   |
| n-butylbenzene              | 1.7350 | 1.9599 | .05        | 13  | 20        |   |
| 1,2-dichlorobenzene         | .97323 | .98227 | .4         | 1   | 20        |   |
| 1,2-dibromo-3-chloropropane | .07479 | .05296 | .05        | -29 | 20        | F |
| hexachlorobutadiene         | .14329 | .1824  | .05        | 27  | 20        | F |
| 1,2,4-trichlorobenzene      | .53158 | .52545 | .2         | -1  | 20        |   |
| naphthalene                 | 1.4007 | .97444 | .05        | -30 | 20        | F |
| 1,2,3-trichlorobenzene      | .49397 | .40344 | .05        | -18 | 20        |   |
| dibromofluoromethane        | .24552 | .25469 | .05        | 4   | 20        |   |
| 1,2-dichloroethane-d4       | .28058 | .2781  | .05        | -1  | 20        |   |
| toluene-d8                  | 1.3020 | 1.3074 | .05        | 0   | 20        |   |
| 4-bromofluorobenzene        | 1.0299 | .99617 | .05        | -3  | 20        |   |

FORM VII MCP-8260-10

March 8, 2016

William P & Linda S Burt  
PO Box 666  
No Eastham, MA 02651

**Subject: Environmental Sampling Results  
85 Alston Avenue, Eastham, MA**

On behalf of the Town of Eastham, this letter transmits to you the laboratory results of the water sample collected from the property referenced above on February 12, 2016. The water sample was submitted for analysis of 1,4-dioxane. This compound was detected at an estimated concentration of 0.125 micrograms per liter or  $\mu\text{g/L}$  in the sample. This estimated concentration is below the Massachusetts drinking water standard and the bottle water action limit of 0.3  $\mu\text{g/L}$ .

Pages from the laboratory report with these results are attached for your review, along with MassDEP-required form BWSC-123, and a sample laboratory report diagram. Status reports describing activities related to the Eastham landfill are available at the Eastham Town Hall and library, and are also available on line at:

<http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=4-0024301>

Please call us at 508-226-1800 if you have any questions.

Sincerely,  
*Environmental Strategies & Management, Inc.*



Douglas Heely, PG, LSP  
Principal Geologist

Copy: Ms. Jane Crowley, Town of Eastham Board of Health  
MassDEP, SERO



**NOTICE OF ENVIRONMENTAL SAMPLING**

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

**BWSC 123**

This Notice is Related to  
Release Tracking Number

4

24301

**A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):**

1. Street Address: EASTHAM LANDFILL, 255 OLD ORCHARD ROAD  
City/Town: EASTHAM Zip Code: 02642

**B. This notice is being provided to the following party:**

1. Name: William P & Linda S Burt  
2. Street Address: PO Box 666  
City/Town: N. Eastham Zip Code: 02651

**C. This notice is being given to inform its recipient (the party listed in Section B):**

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

**D. Location of the property where the environmental sampling will be/has been conducted:**

1. Street Address: 85 Alston Avenue  
City/Town: EASTHAM, MA Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

- |   |   |
|---|---|
| <input type="checkbox"/> Immediate Response Action              | <input type="checkbox"/> Phase III Feasibility Evaluation                   |
| <input type="checkbox"/> Release Abatement Measure              | <input type="checkbox"/> Phase IV Remedy Implementation Plan                |
| <input type="checkbox"/> Utility-related Abatement Measure      | <input type="checkbox"/> Phase V/Remedy Operation Status                    |
| <input type="checkbox"/> Phase I Initial Site Investigation     | <input type="checkbox"/> Post-Class C Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____  |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential     commercial     industrial     school/playground     Other \_\_\_\_\_
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Private well drinking water.

**E. Contact information related to the party providing this notice:**

Contact Name: DOUGLAS HEELY  
Street Address: 273 WEST MAIN ST  
City/Town: NORTON, MA Zip Code: 02766  
Telephone: (508) 226-1800 Email: dheely@esm-inc.com

## **NOTICE OF ENVIRONMENTAL SAMPLING**

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

### MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

### THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the “disposal site”.)

### PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

**Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

**Section D** on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

### FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

March 8, 2016

Barbara Komins  
25 Deepwood Drive  
Eastham, MA 02642

**Subject: Environmental Sampling Results  
25 Deepwood Drive, Eastham, MA**

On behalf of the Town of Eastham, this letter transmits to you the laboratory results of the water sample collected from the property referenced above on February 12, 2016. The water sample was submitted for analysis of 1,4-dioxane. This compound was not detected above the laboratory reporting limit in the sample.

Pages from the laboratory report with these results are attached for your review, along with MassDEP-required form BWSC-123. Status reports describing activities related to the Eastham landfill are available at the Eastham Town Hall and library, and are also available on line at:

<http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=4-0024301>

Please call us at 508-226-1800 if you have any questions.

Sincerely,  
*Environmental Strategies & Management, Inc.*



Douglas Heely, PG, LSP  
Principal Geologist

Copy: Ms. Jane Crowley, Town of Eastham Board of Health  
MassDEP, SERO



**NOTICE OF ENVIRONMENTAL SAMPLING**

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

**BWSC 123**

This Notice is Related to Release Tracking Number

4 24301

**A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):**

1. Street Address: EASTHAM LANDFILL, 255 OLD ORCHARD ROAD  
City/Town: EASTHAM Zip Code: 02642

**B. This notice is being provided to the following party:**

1. Name: Barbara Komins  
2. Street Address: 25 Deepwood Drive  
City/Town: Eastham Zip Code: 02642

**C. This notice is being given to inform its recipient (the party listed in Section B):**

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

**D. Location of the property where the environmental sampling will be/has been conducted:**

1. Street Address: 25 Deepwood Drive  
City/Town: EASTHAM MA Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

- |   |   |
|---|---|
| <input type="checkbox"/> Immediate Response Action              | <input type="checkbox"/> Phase III Feasibility Evaluation                   |
| <input type="checkbox"/> Release Abatement Measure              | <input type="checkbox"/> Phase IV Remedy Implementation Plan                |
| <input type="checkbox"/> Utility-related Abatement Measure      | <input type="checkbox"/> Phase V/Remedy Operation Status                    |
| <input type="checkbox"/> Phase I Initial Site Investigation     | <input type="checkbox"/> Post-Class C Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____  |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential    commercial    industrial    school/playground    Other \_\_\_\_\_
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Private well drinking water.

**E. Contact information related to the party providing this notice:**

Contact Name: DOUGLAS HEELY  
Street Address: 273 WEST MAIN ST  
City/Town: NORTON, MA Zip Code: 02766  
Telephone: (508) 226-1800 Email: dheely@esm-inc.com

## **NOTICE OF ENVIRONMENTAL SAMPLING**

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

### MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

### THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the “disposal site”.)

### PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

**Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

**Section D** on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

### FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

March 8, 2016

Linda Burt  
Head Custodian  
Eastham Elementary School  
200 Schoolhouse Road  
Eastham, MA 02642

**Subject: Environmental Sampling Results  
200 Schoolhouse Road**

Dear Ms. Burt,

On behalf of the Town of Eastham, this letter transmits to you the laboratory results for the drinking water sample Environmental Strategies & Management collected from the Eastham Elementary School's drinking water well on February 12, 2016, for 1,4-Dioxane testing. This compound was detected in the sample at an estimated concentration of 0.0763 micrograms per liter or µg/L. This estimated concentration is below the Massachusetts drinking water standard and the bottle water action limit of 0.3 µg/L.

A summary of all laboratory results from water samples collected from the elementary school well is attached. In addition, the MassDEP-required form BWSC-123 form, and pages from the laboratory report with the results are attached. Status reports describing activities related to the Eastham landfill are available at the Eastham Town Hall and library, and are also available on line at: <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=4-0024301>

Please call us at 508-226-1800 if you have any questions.

Sincerely,  
*Environmental Strategies & Management, Inc.*



Douglas Heely, PG, LSP  
Principal Geologist

Copy: Ms. Jane Crowley, Town of Eastham Board of Health  
MassDEP, SERO

## 1,4 Dioxane Analytical Results

Eastham Elementary School  
200 Schoolhouse Road  
(reported in ug/L)

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| Sample Date | Sample Collection Point                     | Lab Report Sample ID Logged | Lab ID      | 1,4-Dioxane |
|-------------|---|-----------------------------|-------------|-------------|
| 02/12/2016  | Influent Side (before) pH Treatment Vessels | SCHOOLHOUSE RD_200          | L1604038-01 | 0.0763J     |
| 11/18/2015  | Influent Side (before) pH Treatment Vessels | SCHOOLHOUSE RD_200          | L1530332-02 | <0.142      |
| 08/12/2015  | Influent Side (before) pH Treatment Vessels | SCHOOLHOUSE RD_200          | L1519367-09 | 0.0961J     |
| 8/12/2015   | Duplicate                                   | SCHOOLHOUSE RD_200 DUP      | L1519367-10 | 0.106J      |
| 05/13/2015  | Influent Side (before) pH Treatment Vessels | SCHOOLHOUSE RD_200          | L1510437-03 | 0.100J      |
| 02/13/2015  | Influent Side (before) pH Treatment Vessels | SCHOOLHOUSE RD_200          | L1502855-01 | 0.0892J     |
| 11/20/2014  | Influent Side (before) pH Treatment Vessels | SCHOOLHOUSE RD_200          | L1428102-03 | 0.0884J     |
| 11/20/2014  | Duplicate                                   | SCHOOLHOUSE RD_200 DUP      | L1428102-04 | 0.0808J     |
| 08/04/2014  | Influent Side (before) pH Treatment Vessels | SCHOOLHOUSE RD_200          | L1417359-10 | 0.0822J     |
| 05/06/2014  | Influent Side (before) pH Treatment Vessels | SCHOOLHOUSE RD_200          | L1409598-05 | 0.105J      |
| 02/14/2014  | Influent Side (before) pH Treatment Vessels | EES-PRE2                    | 200-20946-1 | 0.083 J     |
|             | Duplicate (influent)                        | EES-151                     | 200-20946-3 | 0.076 J     |
|             | Effluent Side (after) pH Treatment Vessels  | EES-POST2                   | 200-20946-2 | 0.094 J     |
| 02/11/2014  | Influent Side (before) pH Treatment Vessels | ESS-PRE                     | 200-20885-1 | 0.081 J     |
|             | Duplicate (influent)                        | ESS-150                     | 200-20885-3 | 0.086 J     |
|             | Effluent Side (after) pH Treatment Vessels  | ESS-POST                    | 200-20885-2 | 0.096 J     |
| 02/12/2013  | Raw Water Tap                               | 200 Schoolhouse Rd.         | 480-32875-4 | < 0.20      |

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Current Drinking Water Standard

0.3

## 1,4 Dioxane Analytical Results

### Eastham Elementary School 200 Schoolhouse Road

Notes:

|            |   |
|------------|---|
| 02/12/2016 | Both primary and duplicate samples were collected by Environmental Strategies & Management (ES&M) on February 12, 2016, and submitted to Alpha Analytical for 1,4 dioxane analysis by MassDEP CAM-compliant EPA Method 8270. The concentration of 1,4 dioxane detected in the primary sample was estimated to be below the laboratory Reporting Limit (RL) of 0.147 ug/L; therefore, analysis of the duplicate sample was not required.   |
| 11/18/2015 | Both primary and duplicate samples were collected by Environmental Strategies & Management (ES&M) on November 18, 2015, and submitted to Alpha Analytical for 1,4 dioxane analysis by MassDEP CAM-compliant EPA Method 8270. The compound 1,4 dioxane was not detected in the primary sample; therefore, the analysis of the duplicate sample was not required.   |
| 8/12/2015  | Both primary and duplicate samples were collected by Environmental Strategies & Management (ES&M) on August 12, 2015, and submitted to Alpha Analytical for 1,4 dioxane analysis by MassDEP CAM-compliant EPA Method 8270. The concentration of 1,4 dioxane detected in the primary sample was estimated to be below the laboratory Reporting Limit (RL) of 0.150 ug/L. Although analysis of the duplicate sample was not required, the laboratory completed the analysis on this sample.   |
| 05/13/2015 | Both primary and duplicate samples were collected by Environmental Strategies & Management (ES&M) on May 13, 2015, and submitted to Alpha Analytical for 1,4 dioxane analysis by MassDEP CAM-compliant EPA Method 8270. Since the concentration of 1,4 dioxane detected in the primary sample was estimated to be below the laboratory Reporting Limit (RL) of 0.150 ug/L, analysis of the duplicate sample was not required.   |
| 02/13/2015 | Both primary and duplicate samples were collected by Environmental Strategies & Management (ES&M) on February 13, 2015, and submitted to Alpha Analytical for 1,4 dioxane analysis by MassDEP CAM-compliant EPA Method 8270. Since the concentration of 1,4 dioxane detected in the primary sample (0.0892 ug/L) was estimated to be below the laboratory Reporting Limit (RL) of 0.150 ug/L, analysis of the duplicate sample was not required.  |
| 11/20/2014 | The sample collected on November 20, 2014, by ES&M was analyzed by Alpha Analytical for 1,4 dioxane using MassDEP CAM-compliant EPA Method 8270. The Method Detection Limit (MDL) for the primary sample was 0.0750 ug/L and the RL was 0.150 ug/L. The MDL for the secondary sample was 0.0742 ug/L and the Reporting Limit RL was 0.148 ug/L. The analytical results were greater than the MDL, but less than the RL, and are therefore estimated and flagged with a "J" value.   |
| 08/04/2014 | The sample collected on August 4, 2014, by ES&M was analyzed by Alpha Analytical using MassDEP CAM-compliant EPA Method 8270. The MDL was 0.0708 ug/L and the RL was 0.142 ug/L. The analytical result was greater than the MDL, but less than the RL, and is therefore estimated and flagged as a "J" value.   |
| 05/06/2014 | <p>The sample collected on May 6, 2014, also by Environmental Strategies &amp; Management, was analyzed by Alpha Analytical using MassDEP CAM-compliant EPA Method 8270. The MDL was 0.0721 ug/L and the RL was 0.144 ug/L. The analytical result was greater than the MDL, but less than the RL, and is therefore estimated and flagged as a "J" value.</p> <p>These samples were collected from the sample port located after the pressure tank and before the pH treatment vessel. This sample location is before any water lines leading to faucets and fountains. Prior to collecting each sample, 30 gallons of water was purged from the system over a period of approximately 25 minutes using the faucet nearest to the sample location.</p> |

## 1,4 Dioxane Analytical Results

**Eastham Elementary School  
200 Schoolhouse Road**

|                           |  |
|---------------------------|--|
| 02/11/2014<br>& 2/14/2014 | <p>Samples collected on February 11 and 14, 2014, by Environmental Partners Group, were analyzed by TestAmerica Laboratories using EPA Method 522 Mod. with an MDL of 0.040 ppb and a RL of 0.20 ppb. The analytical results were greater than the MDL, but less than the RL, and therefore were estimated and flagged as a "J" value.</p> <p>At this time, samples were collected from the ports before and after treatment vessels that provide pH treatment to the water. The taps from which the samples were collected were allowed to run a minimum of 15 minutes before sample collection. There are no drinking water fountains or bathroom faucets ahead of these taps.</p> |
| 02/12/2013                | <p>Samples collected on February 12, 2013, by Bennett Associates were analyzed using EPA Method 522 Mod by TestAmerica Laboratories. This sample was a raw water sample.</p>   |



## NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

**BWSC 123**

This Notice is Related to  
Release Tracking Number

4

24301

**A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):**

1. Street Address: EASTHAM LANDFILL, 255 OLD ORCHARD ROAD  
City/Town: EASTHAM Zip Code: 02642

**B. This notice is being provided to the following party:**

1. Name: TOWN OF EASTHAM  
2. Street Address: 200 SCHOOLHOUSE RD  
City/Town: EASTHAM, MA Zip Code: 02642

**C. This notice is being given to inform its recipient (the party listed in Section B):**

1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

**D. Location of the property where the environmental sampling will be/has been conducted:**

1. Street Address: 200 SCHOOLHOUSE ROAD  
City/Town: EASTHAM, MA Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

- |   |   |
|---|---|
| <input type="checkbox"/> Immediate Response Action              | <input type="checkbox"/> Phase III Feasibility Evaluation                   |
| <input type="checkbox"/> Release Abatement Measure              | <input type="checkbox"/> Phase IV Remedy Implementation Plan                |
| <input type="checkbox"/> Utility-related Abatement Measure      | <input type="checkbox"/> Phase V/Remedy Operation Status                    |
| <input type="checkbox"/> Phase I Initial Site Investigation     | <input type="checkbox"/> Post-Class C Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____  |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential    commercial    industrial    school/playground    Other \_\_\_\_\_
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

**E. Contact information related to the party providing this notice:**

Contact Name: \_\_\_\_\_

Street Address: \_\_\_\_\_

City/Town: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Telephone: \_\_\_\_\_ Email: \_\_\_\_\_

## **NOTICE OF ENVIRONMENTAL SAMPLING**

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

### MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

### THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the “disposal site”.)

### PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

**Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

**Section D** on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

### FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

March 8, 2016

Richard Ellefsen & Sandy Fitzpatrick  
9 Todd Rd  
Plymouth Ct 06782

**Subject: Environmental Sampling Results  
375 Meetinghouse Road, Eastham, MA**

On behalf of the Town of Eastham, this letter transmits to you the laboratory results of the water sample collected from the property referenced above on February 12, 2016. The water sample was submitted for analysis of 1,4-dioxane. This compound was detected at an estimated concentration of 0.133 micrograms per liter or  $\mu\text{g}/\text{L}$  in the sample. This estimated concentration is below the Massachusetts drinking water standard and the bottle water action limit of 0.3  $\mu\text{g}/\text{L}$ .

Pages from the laboratory report with these results are attached for your review, along with MassDEP-required form BWSC-123. Status reports describing activities related to the Eastham landfill are available at the Eastham Town Hall and library, and are also available on line at:

<http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=4-0024301>

Please call us at 508-226-1800 if you have any questions.

Sincerely,  
*Environmental Strategies & Management, Inc.*



Douglas Heely, PG, LSP  
Principal Geologist

Copy: Ms. Jane Crowley, Town of Eastham Board of Health  
MassDEP, SERO



### NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

**BWSC 123**

This Notice is Related to Release Tracking Number

4

24301

**A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):**

1. Street Address: EASTHAM LANDFILL, 255 OLD ORCHARD ROAD  
City/Town: EASTHAM Zip Code: 02642

**B. This notice is being provided to the following party:**

1. Name: Richard Ellefsen  
2. Street Address: 9 Todd Rd  
City/Town: Plymouth CT Zip Code: 06782

**C. This notice is being given to inform its recipient (the party listed in Section B):**

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

**D. Location of the property where the environmental sampling will be/has been conducted:**

1. Street Address: 375 Meetinghouse Road  
City/Town: EASTHAM MA Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

- |   |   |
|---|---|
| <input type="checkbox"/> Immediate Response Action              | <input type="checkbox"/> Phase III Feasibility Evaluation                   |
| <input type="checkbox"/> Release Abatement Measure              | <input type="checkbox"/> Phase IV Remedy Implementation Plan                |
| <input type="checkbox"/> Utility-related Abatement Measure      | <input type="checkbox"/> Phase V/Remedy Operation Status                    |
| <input type="checkbox"/> Phase I Initial Site Investigation     | <input type="checkbox"/> Post-Class C Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____  |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential     commercial     industrial     school/playground     Other \_\_\_\_\_
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Private well drinking water.

**E. Contact information related to the party providing this notice:**

Contact Name: DOUGLAS HEELY  
Street Address: 273 WEST MAIN ST  
City/Town: NORTON, MA Zip Code: 02766  
Telephone: (508) 226-1800 Email: dheely@esm-inc.com

## **NOTICE OF ENVIRONMENTAL SAMPLING**

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

### MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

### THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the “disposal site”.)

### PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

**Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

**Section D** on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

### FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

March 8, 2016

Stephen Montanez  
4 Preservation Way  
Eastham, MA 02642

Subject: 4 Preservation Way, Eastham, MA

Dear Mr. Montanez:

On behalf of the Town of Eastham, this letter transmits to you the laboratory results for the water samples Environmental Strategies & Management collected from your property on February 12, 2016, for 1,4 Dioxane testing. This compound was detected at a concentration of 0.209 micrograms per liter or  $\mu\text{g}/\text{L}$  in the primary sample and at a concentration of 0.208  $\mu\text{g}/\text{L}$  in the duplicate sample. Both concentrations are below the Massachusetts drinking water standard and the bottle water action limit of 0.3  $\mu\text{g}/\text{L}$ .

A MassDEP Bureau of Waste Site Cleanup transmittal form (BWSC-123) and pages from the laboratory report with your results are attached. Status reports describing activities related to the Eastham landfill are available at the Eastham Town Hall and library, and are also available on line at:

<http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=4-0024301>

Please call us at 508-226-1800 if you have any questions.

Sincerely,  
*Environmental Strategies & Management, Inc.*



Douglas Heely, PG, LSP  
Principal Geologist

Copy: Ms. Jane Crowley, Town of Eastham Board of Health  
MassDEP, Southeast Regional Office



**NOTICE OF ENVIRONMENTAL SAMPLING**

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

**BWSC 123**

This Notice is Related to Release Tracking Number

4

24301

**A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):**

1. Street Address: EASTHAM LANDFILL, 255 OLD ORCHARD ROAD  
City/Town: EASTHAM Zip Code: 02642

**B. This notice is being provided to the following party:**

1. Name: STEPHEN MONTANEZ  
2. Street Address: 4 PRESERVATION WAY  
City/Town: EASTHAM Zip Code: 02642

**C. This notice is being given to inform its recipient (the party listed in Section B):**

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

**D. Location of the property where the environmental sampling will be/has been conducted:**

1. Street Address: 4 PRESERVATION WAY  
City/Town: EASTHAM MA Zip Code: 02642

2. MCP phase of work during which the sampling will be/has been conducted:

- |   |   |
|---|---|
| <input type="checkbox"/> Immediate Response Action              | <input type="checkbox"/> Phase III Feasibility Evaluation                   |
| <input type="checkbox"/> Release Abatement Measure              | <input type="checkbox"/> Phase IV Remedy Implementation Plan                |
| <input type="checkbox"/> Utility-related Abatement Measure      | <input type="checkbox"/> Phase V/Remedy Operation Status                    |
| <input type="checkbox"/> Phase I Initial Site Investigation     | <input type="checkbox"/> Post-Class C Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____  |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential     commercial     industrial     school/playground     Other \_\_\_\_\_
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Private well drinking water.

**E. Contact information related to the party providing this notice:**

Contact Name: DOUGLAS HEELY  
Street Address: 273 WEST MAIN ST  
City/Town: NORTON, MA Zip Code: 02766  
Telephone: (508) 226-1800 Email: dheely@esm-inc.com

## **NOTICE OF ENVIRONMENTAL SAMPLING**

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

### MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

### THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the “disposal site”.)

### PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

**Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

**Section D** on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

### FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

March 25, 2016

Town of Eastham Board of Health  
2500 State Highway  
Eastham, MA 02642-2544

Eastham Board of Selectmen  
Eastham Town Hall  
2500 State Highway  
Eastham MA 02643-2544

Subject: Immediate Response Action Status Report -1<sup>st</sup> Quarter 2016  
Town of Eastham Landfill  
255 Old Orchard Road, Eastham MA  
RTN 4-24301

As required by the Massachusetts Contingency Plan (MCP), notice is hereby given that the above referenced document has been submitted electronically to the Massachusetts Department of Environmental Protection (MassDEP).

The objective of the Immediate Response Action program is to identify private water wells in the vicinity of the Eastham Landfill that have been impacted by 1,4 dioxane, and to provide alternative safe drinking water to affected residents. In addition, the IRA program includes implementation of appropriate and feasible mitigating measures to remove 1,4 dioxane and other VOCs related to the Eastham landfill from drinking water. This IRA Status report (and the incorporated Landfill Monitoring Plan report) discusses activities completed between December 1, 2015, and February 29, 2016.

The submitted documents for this RTN can be viewed on line at <http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=4-0024301> or at the MassDEP Southeast regional office. For more information about these options, please visit <http://www.mass.gov/eea/agencies/massdep/>.

If you have any questions, please contact our office at 508-226-1800.

Sincerely,  
*Environmental Strategies & Management, Inc.*



Douglas Heely, LSP

Copy: MassDEP Southeast Region