# MASSACHUSETTS CONTINGENCY PLAN
# IMMEDIATE RESPONSE ACTION STATUS REPORT
# and
# LANDFILL MONITORING REPORT
# 4TH QUARTER 2016

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

## DEP RTN 4-24301

December 23, 2016

Prepared for:

Town of Eastham
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Eastham, MA 02642-2544

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ES&M Project No. 2016-055

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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 around the landfill.

## *1.2 Purpose*

This IRA Status and Landfill Monitoring Report documents activities undertaken at and around the Eastham Landfill during the 4th quarter of 2016 (September 1 through November 30, 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, to discontinue 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.

One additional IRA Plan Modification (ES&M, December 22, 2016) outlines procedures and policies relative to connections to the Town's municipal water system, which is currently under construction. This Plan Modification also describes policies for the conversion of private drinking water wells to irrigation wells within the defined Mandatory Municipal Water Supply zone.

During the September through November 2016 report period, the private well testing program's expansion into the area south of Route 6 continued. The testing program included several properties not previously tested on Armour Drive, Kingsbury Beach Road, Locust Road, Salt Pond Road, Split Rail Road, State Highway and Wood Duck Lane. The purpose of this additional work was to better define the southwesterly extent of 1,4 dioxane in the drinking water aquifer. During the report period, thirty-five additional property owners in the southwestern expansion area were invited to participate in this sampling event, and water samples from seventeen properties were collected for laboratory analysis of 1,4 dioxane.

The IRA has included routine sampling within the study area, based on the following 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; and

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.

Since connections to the municipal water system have already begun, many of the IRA sampling programs have been concluded. For example, the Eastham Elementary School was connected to the municipal system during this reporting period; therefore no further testing is needed.

## *2.1 Private Well Sampling - Status Update*

### 2.1.1 Summary of Sampling Activities

During this report period, drinking water samples were collected from a total of eighteen properties in the southwest expansion area (one had been tested previously), and two 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. Field notes for these sampling events 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 was 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[1].

Private well water tested for 1,4-dioxane during this report period that have been tested previously, had results that were consistent with previous sampling results.

The Site Map included as Figure 1 shows the properties within the study area, including in the southern expansion 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).

[1] Results for "background" samples collected outside of the study area are included at the end of Table 2.

- 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.

The laboratory reports for samples collected during this report period were submitted to MassDEP within the IRA Plan Modification report dated December 22, 2016. ES&M completed a quality assessment/quality control review of each laboratory report and all were deemed usable. ES&M's review logs serve as the cover page for each laboratory report. As required by 310 CMR 40.1403(10) of the MCP, property owners were notified of the laboratory results for samples collected from their properties. Copies of the notification form (BWSC form 123) that were sent are included in Appendix C[2].

### *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 tested 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). Once the efficacy of the carbon system was proven and documented, the town discontinued activated carbon system testing. The carbon treatment system remained in use at 255 Alston Avenue until this fall when the residence was connected to the municipal water supply system.

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

A letter notifying the Town of Eastham Board of Health and Chief Municipal Officer of the electronic submittal of this IRA status report to MassDEP is being sent concurrent with the submittal of this report. A copy of the notification letter is included in Appendix D.

[2]Although not included in Appendix C, each homeowner received a copy of the laboratory report for samples collected of their drinking water in addition to the BWSC transmittal form 123.

# 3.0 LANDFILL MONITORING PROGRAM ACTIVITIES

The landfill monitoring program includes routine sampling of private well water (in concert with the IRA) and longer-term activities related to assessing the nature and extent of 1,4 dioxane emanating from the landfill. Previous status reports have provided updates to the assessment activities, including installation and sampling of temporary and permanent monitoring wells, and groundwater flow studies. A significant update to this work is found in the IRA Plan Modification (ES&M, December 22, 2016).

## *3.1 Landfill Monitoring Well Sample Collection*

The following section summarizes the landfill monitoring well samples collected during this report period. A summary of the revised LMP sampling requirements and schedule is shown on Table 3. 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 November 29, 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.

- Because of the depth of this well and the equipment available, BCDHE personnel were not able to collect the semi-annual groundwater sample from landfill monitoring well MW-21S for analysis of VOCs and 1,4-dioxane.

- On November 29, 2016, BCDHE personnel collected annual groundwater samples from landfill monitoring wells MW-2S, MW-4S and MW-5S for analysis of VOCs, 1,4-dioxane, metals and indicator parameters.

- On November 29, 2016, BCDHE personnel collected annual groundwater samples from landfill monitoring well MW-8 and the DPW monitoring well for analysis of VOCs and 1,4-dioxane.

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 Soil Gas Monitoring*

Personnel from BCDHE conducted semi-annual soil gas monitoring at the Eastham Landfill on November 28, 2016. Six soil gas monitoring points were screened for percent methane (%$CH_4$), percent of the lower explosion limit (%LEL), hydrogen sulfide ($H_2S$) in parts per million (ppm), percent oxygen (%$O_2$), and VOCs (in ppm). With the exception of oxygen levels, all other readings were zero. The Eastham Landfill soil gas report prepared by BCDHE is included in Appendix E.

### *3.3 Private Well Sample Collection*

In accordance with the LMP, drinking water samples were collected from seven residences for laboratory testing during previous reporting periods. The laboratory test results from these samples are reported in Table 4 (the 1,4-dioxane results for the residence are also reported on Table 2).

## 4.0 FUTURE SCHEDULE OF IRA AND LMP ACTIVITIES

During the next reporting period from December 2016 through February 2017, 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 for residences not yet connected to the MWS;
- 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.

As described in Sections 2 and 3 of this report, an IRA Plan Modification was submitted to MassDEP on December 22, 2016. This report describes assessment and hydrogeologic studies conducted to define the nature and extent of 1,4 dioxane in the drinking water aquifer, as well as groundwater flow conditions. The report forms the basis and justification for the Mandatory Municipal Supply Zone, which is the area where connections to the Town's water supply are mandatory. As these connections are made and private wells are either decommissioned or converted to non-potable uses, the IRA will transition towards closure. Once the IRA is complete, future groundwater monitoring activities will be conducted under a soon-to-be revised LMP.

### *4.2 Landfill Monitoring Plan*

- Collection of quarterly groundwater samples from wells MW-3I and MW-3D during the winter of 2017 for analysis of indicator parameters, metals and VOCs including 1,4-dioxane.

## 5.0 PUBLIC OUTREACH

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

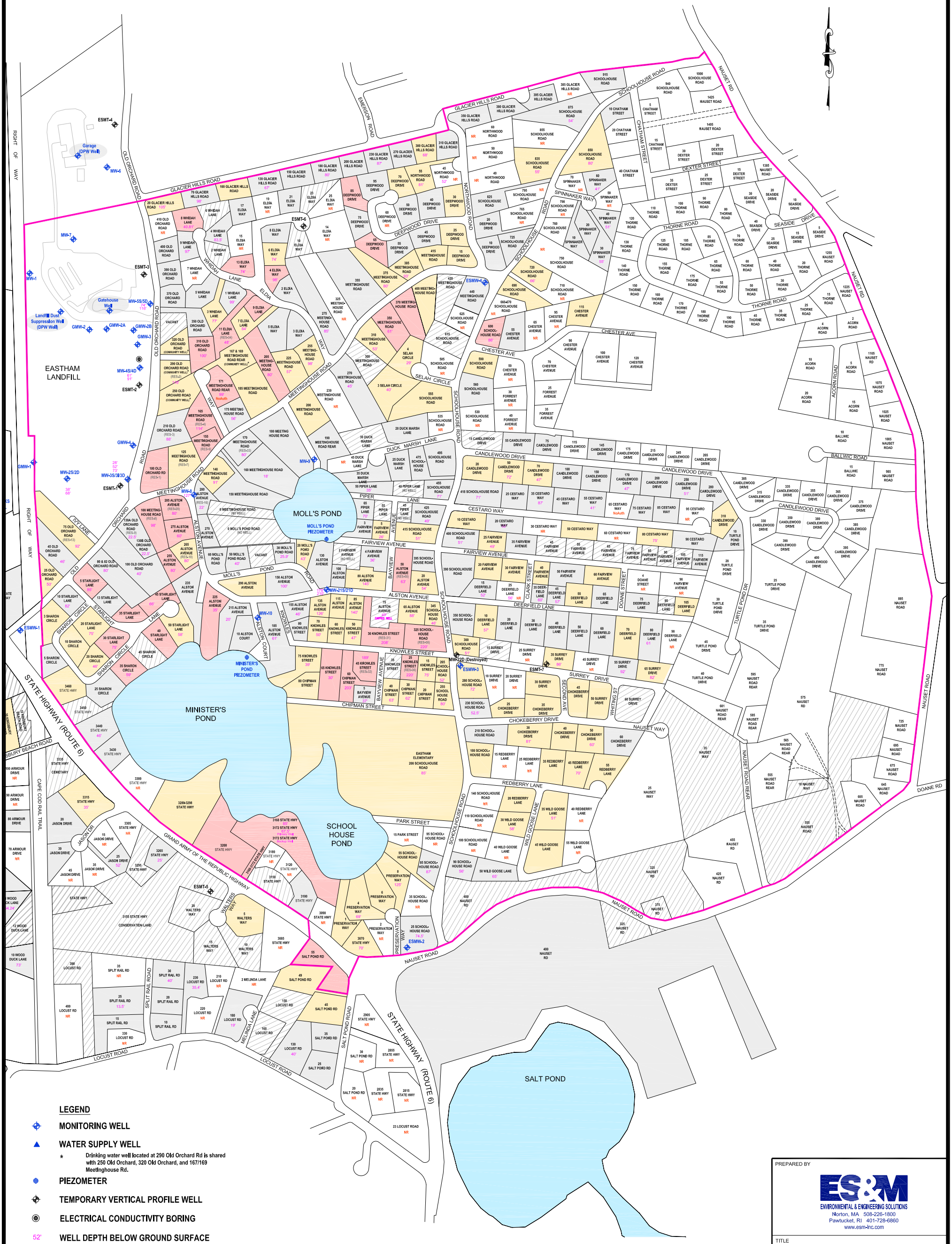
**Availability of Reports**

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




C:\Users\jbroeen Local\Documents\ESM\Eastham Landfill\Eastham Landfill 2016.dwg, Tab: F1 IRA SITE PLAN, Plotted: Dec 22, 2016

PREPARED BY

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TITLE

# SITE MAP

PREPARED FOR

TOWN OF EASTHAM

LOCATION

OLD ORCHARD ROAD
EASTHAM, MASSACHUSETTS

| DRAWN | CHECKED | APPROVED |
|---|---|---|
| DMR | LF | DH |

| DATE | PROJECT NUMBER |
|---|---|
| 12/22/2016 | 2015-038 |

| RTN | FILE |
|---|---|
| 4-24301 | EASTHAM LANDFILL 2016.DWG |

**FIGURE 1**

**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
55 SALT POND 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 | |
|---|---|---|---|---|
| **Study Area Samples** | | | | |
| 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** | **10/26/2016** | | **<0.147** | **4Q2016** |
| | 7/21/2016 | | 0.168 | |
| | 7/21/2016 | Duplicate | 0.184 | |
| | 5/13/2016 | | 0.135J | |
| | 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 | | <0.20 | |
| 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 | |

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 | |
|---|---|---|---|---|---|
| 200 ALSTON AVENUE | | 7/21/2016 | | <0.144 | |
| | | 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 | |
| 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 | | 5/12/2016 | | <0.147 | |
| | | 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 | | 5/12/2016 | | <0.147 | |
| | | 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 | |
| **60 ARMOUR DRIVE** | | **10/26/2016** | | **<0.147** | **4Q2016** |
| **80 ARMOUR DRIVE** | | **10/26/2016** | | **<0.147** | **4Q2016** |
| ATLANTIC OAKS 'H' WELL | | 7/21/2016 | | 0.0778J | |
| | | 7/25/2013 | | <0.20 | |
| ATLANTIC OAKS NORTH WELL | | 7/21/2016 | | <0.156 | |
| | | 7/25/2013 | | <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 |
|---|---|---|---|
| ATLANTIC OAKS-SOUTH WELL | 7/21/2016 | | <0.147 |
| | 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 |
| 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 |

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 |
|---|---|---|---|
| 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 |
| 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 |
| 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 |

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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 |
|---|---|---|---|
| 5 ELDIA WAY | 1/23/2015 | | <0.163 |
| | 4/30/2013 | | <0.20 |
| 6 ELDIA WAY | 5/9/2014 | | <0.144 |
| | 12/5/2013 | | 0.15J |
| 7 ELDIA WAY | 3/24/2014 | | <0.150 |
| | 5/10/2013 | | 0.045J |
| 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 |
| 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 |
| 70 GLACIER HILLS ROAD | 8/4/2014 | | <0.142 |
| | 7/22/2013 | | <0.20 |
| 75 GLACIER HILLS ROAD | 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 |

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GW-1 Standard and ORSG for 1,4 dioxane is 0.3 ug/L
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| Property | Date | Duplicate | 1,4 Dioxane | |
|---|---|---|---|---|
| 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 | |
| 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 | |
| 20 KINGSBURY BEACH ROAD | 7/21/2016 | | 0.0819J | |
| **80 KINGSBURY BEACH ROAD** | **10/5/2016** | | **<0.147** | **4Q2016** |
| **100 KINGSBURY BEACH ROAD** | **10/5/2016** | | **<0.147** | **4Q2016** |
| 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 | |

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| Property | Date | Duplicate | 1,4 Dioxane | |
|---|---|---|---|---|
| 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 | 7/21/2016 | | 0.0809J | |
| | 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 | |
| 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 | |
| **130 LOCUST ROAD** | **10/26/2016** | | **<0.147** | **4Q2016** |
| **180 LOCUST ROAD** | **10/26/2016** | | **<0.147** | **4Q2016** |
| **230 LOCUST ROAD** | **10/5/2016** | | **<0.147** | **4Q2016** |
| 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 | 7/21/2016 | | 0.193 | |
| | 7/21/2016 | Duplicate | 0.111J | |
| | 5/8/2013 | | 0.15J | |
| 140 MEETINGHOUSE ROAD | 3/24/2014 | | <0.150 | |
| | 5/10/2013 | | 0.11J | |
| 150 MEETINGHOUSE ROAD | 2/22/2013 | | <0.20 | |

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| Property | Date | Duplicate | 1,4 Dioxane |
|---|---|---|---|
| 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 | 5/12/2016 | | <0.147 |
| | 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 |
| 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 |

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| Property | | Date | Duplicate | 1,4 Dioxane |
|---|---|---|---|---|
| 385 MEETINGHOUSE ROAD | | 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 | | 5/12/2016 | | 0.100J |
| | | 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 |
| 130B OLD ORCHARD ROAD | | 5/13/2016 | | <0.142 |
| | | 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 |
| | | 2/22/2013 | | 0.045J |
| 210 OLD ORCHARD ROAD | | 5/13/2016 | | <0.144 |
| | | 12/18/2013 | | <0.20 |
| | | 2/15/2013 | | <0.20 |
| 290 OLD ORCHARD ROAD | | 5/12/2016 | | <0.147 |
| | Effluent | 3/2/2015 | | <0.144 |
| | Untreated | 3/2/2015 | | <0.156 |
| | | 7/23/2014 | | <0.144 |
| | | 5/16/2013 | | 0.068J |
| | | 2/15/2013 | | <0.20 |
| 310 OLD ORCHARD ROAD | | 5/6/2014 | | 0.431 |
| | | 5/6/2014 | Duplicate | 0.433 |
| | | 4/29/2013 | | 0.41 |

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| Property | Date | Duplicate | 1,4 Dioxane | |
|---|---|---|---|---|
| 350 OLD ORCHARD ROAD | 8/1/2014 | | <0.142 | |
| | 5/3/2013 | | <0.20 | |
| 370 OLD ORCHARD ROAD | 5/2/2013 | | <0.20 | |
| 390 OLD ORCHARD ROAD | 5/7/2013 | | <0.20 | |
| 400 OLD ORCHARD ROAD | 5/7/2013 | | <0.20 | |
| 50 PIPER LANE | 2/20/2013 | | <0.20 | |
| 65 PIPER LANE | 7/31/2013 | | <0.20 | |
| 1 PRESERVATION WAY | 8/25/2014 | | 0.174 | |
| | 8/25/2014 | Duplicate | 0.199 | |
| | 12/2/2013 | | 0.19J | |
| **4 PRESERVATION WAY** | **10/26/2016** | | **0.198** | **4Q2016** |
| | **10/26/2016** | **Duplicate** | **0.217** | **4Q2016** |
| | 7/21/2016 | | 0.248 | |
| | 7/21/2016 | Duplicate | 0.173 | |
| | 5/13/2016 | | 0.197 | |
| | 5/13/2016 | Duplicate | 0.21 | |
| | 2/12/2016 | | 0.209 | |
| | 2/12/2016 | Duplicate | 0.208 | |
| | 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 | |
| | 12/3/2013 | | 0.18J | |
| | 4/30/2013 | | 0.21 | |
| 6 PRESERVATION WAY | 12/2/2013 | | 0.11J | |
| 8 PRESERVATION WAY | 12/2/2013 | | 0.13J | |
| 20 REDBERRY LANE | 7/23/2013 | | 0.046J | |
| 35 REDBERRY LANE | 12/2/2013 | | 0.070J | |
| 45 REDBERRY LANE | 3/28/2014 | | 0.105J | |
| 55 REDBERRY LANE | 7/22/2013 | | 0.047J | |
| **25 SALT POND ROAD** | **10/5/2016** | | **<0.147** | **4Q2016** |
| **35 SALT POND ROAD** | **10/5/2016** | | **<0.147** | **4Q2016** |
| 45 SALT POND ROAD | 7/21/2016 | | 0.195 | |
| | 7/21/2016 | Duplicate | 0.188 | |
| 49 SALT POND ROAD | 3/11/2014 | | 0.177 | |
| | 3/11/2014 | Duplicate | 0.166 | |
| **55 SALT POND ROAD** | **9/1/2016** | | **0.681** | **4Q2016** |
| | 7/21/2016 | | 0.596 | |
| 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 | |

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| Property | | Date | Duplicate | 1,4 Dioxane |
|---|---|---|---|---|
| 200 SCHOOLHOUSE ROAD | | 7/21/2016 | | 0.0799J |
| | | 5/13/2016 | | <0.144 |
| | | 2/12/2016 | | 0.0763J |
| | | 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 |
| | POST (filter) | 2/11/2014 | | 0.096J |
| | PRE (filter) | 2/11/2014 | | 0.081J |
| | 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 |

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 |
|---|---|---|---|---|
| 325 SCHOOLHOUSE ROAD | Untreated | 9/19/2013 | | 10 |
| | Effluent | 9/19/2013 | | 0.68 |
| | Mid System | 9/19/2013 | | 0.095J |
| | 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 |
| | Untreated | 7/31/2013 | | 9.4 |
| | Mid System | 7/31/2013 | | <0.20 |
| | Untreated | 7/31/2013 | Duplicate | 8.8 |
| | Untreated | 6/27/2013 | | 8.2 |
| | Effluent | 6/27/2013 | | <0.20 |
| | Mid System | 6/27/2013 | | 0.041J |
| | Untreated | 6/27/2013 | Duplicate | 8.8 |
| | Effluent | 5/29/2013 | | <0.20 |
| | Mid System | 5/29/2013 | | <0.20 |
| | Untreated | 5/29/2013 | | 7.8 |
| | 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 |
| | Mid System | 3/21/2013 | | <0.20 |
| | Effluent | 3/21/2013 | | <0.20 |
| | Effluent | 3/14/2013 | | <0.20 |
| | Mid System | 3/14/2013 | | <0.20 |
| | Mid System | 3/8/2013 | | <0.20 |
| | Effluent | 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 |

Notes:
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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 | |
|---|---|---|---|---|
| 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 | |
| 850 SCHOOLHOUSE ROAD | 10/5/2015 | | 0.0758J | |
| 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 | |
| **10 SPLIT RAIL ROAD** | **10/5/2016** | | **<0.147** | **4Q2016** |
| **15 SPLIT RAIL ROAD** | **10/26/2016** | | **<0.147** | **4Q2016** |
| **20 SPLIT RAIL ROAD** | **10/26/2016** | | **<0.147** | **4Q2016** |
| **25 SPLIT RAIL ROAD** | **10/26/2016** | | **<0.144** | **4Q2016** |
| **30 SPLIT RAIL ROAD** | **10/26/2016** | | **<0.156** | **4Q2016** |
| 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 | |
| | 5/3/2013 | | 0.21 | |

Notes:
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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 | |
|---|---|---|---|---|
| 35 STARLIGHT LANE | 4/1/2015 | | 0.315 | |
| | 12/4/2013 | | 0.37 | |
| | 12/4/2013 | Duplicate | 0.30 | |
| | 2/15/2013 | | 0.26 | |
| 40 STARLIGHT LANE | 6/26/2014 | | 0.874 | |
| | 6/26/2014 | Duplicate | 0.936 | |
| | 7/23/2013 | | 0.83 | |
| 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 | |
| | 12/6/2013 | Duplicate | 0.27 | |
| 3172 STATE HWY BACKUP WELL | 3/25/2014 | | 0.335 | |
| | 3/25/2014 | Duplicate | 0.338 | |
| 3172 STATE HWY PRIMARY WELL | 3/17/2015 | | 0.345 | |
| | 3/25/2014 | | 0.326 | |
| | 3/25/2014 | Duplicate | 0.306 | |
| | 12/6/2013 | | 0.20 | |
| | 12/6/2013 | Duplicate | 0.21 | |
| 3200 STATE HWY | 5/8/2014 | | 0.424 | |
| | 5/8/2014 | Duplicate | 0.418 | |
| | 12/6/2013 | | 0.31 | |
| | 12/6/2013 | Duplicate | 0.32 | |
| 3265 STATE HWY | 3/10/2014 | | <0.147 | |
| 3280 STATE HWY | 4/14/2014 | | 0.248 | |
| | 4/14/2014 | Duplicate | 0.198 | |
| 3315 STATE HWY | 3/12/2014 | | 0.232 | |
| | 3/12/2014 | Duplicate | 0.194 | |
| 3430 STATE HWY | 12/2/2013 | | <0.20 | |
| 3440 STATE HWY | 4/11/2014 | | <0.142 | |
| 3460 STATE HWY | 12/6/2013 | | 0.14J | |
| | 4/30/2013 | | 0.10J | |
| **3580 STATE HWY** | **10/26/2016** | | **<0.147** | **4Q2016** |
| 30 SURREY DRIVE | 9/17/2013 | | 0.14J | |
| 35 SURREY DRIVE | 7/31/2013 | | 0.070J | |
| 50 SURREY DRIVE | 4/30/2013 | | 0.058J | |
| 55 SURREY DRIVE | 5/1/2013 | | <0.20 | |
| 65 SURREY DRIVE | 7/22/2013 | | 0.047J | |
| 10 TURTLE POND ROAD | 5/10/2013 | | <0.20 | |
| 5 WALTERS WAY | 4/11/2014 | | 0.147 | |
| | 4/11/2014 | Duplicate | <0.144 | |

Notes:
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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
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 | |
|---|---|---|---|---|
| 1 WHIDAH LANE | 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 | |
| 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 | |
| **10 WOOD DUCK LANE** | **10/26/2016** | | **<0.147** | **4Q2016** |
| **14 WOOD DUCK LANE** | **10/5/2016** | | **<0.147** | **4Q2016** |
| 10 SPINNAKER WAY | 8/25/2014 | | <0.142 | |

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 |
|---|---|---|---|
| **Background Samples** | | | |
| 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 |
| 44 SQUIRREL RUN | 7/17/2014 | | <0.142 |

Notes:
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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
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.

TABLE 3
SUMMARY OF
EASTHAM LANDFILL MONITORING PLAN REQUIREMENTS

| Monitoring Type | RES # | Bottled Water List | Continue LMP Sampling | Frequency | Time Frame | VOCs & 1,4-Dioxane | Inorganics | Indicators | Methane, VOCs, O2 & H2S |
|---|---|---|---|---|---|---|---|---|---|
| **Monitoring Wells** | | | | | | | | | |
| 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 | | | |
| **Landfill Gas Wells** | | | | | | | | | |
| GMW-1, 2, 2A, 2B, 3 & 4 | | | Yes | Semi-Annually | Spring & Fall | | | | x |
| **Residential Wells** | | | | | | | | | |
| 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 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 | | 1,4-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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Standards | | | | | | | | | | | |
| 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 |
| Results | | | | | | | | | | | |
| MW 2D | | 2/14/2013 | | 0.14 J | 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 |
| MW 2S | Annual | 11/29/2016 | | 0.373 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | | 0.47 | 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 |
| | | 7/10/2012 | | <500 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 3D | Quarterly | 11/29/2016 | | 6.37 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 8/10/2016 | | 7.32 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 5/18/2016 | | 7.79 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 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 | <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 |
| | | 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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 9/5/2013 | | <500 | <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 | 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 | 5/8/2013 | 17 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | <500 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 12/6/2012 | <2.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 10/9/2012 | 18 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 7/10/2012 | <500 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 3/20/2012 | <500 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 3I | Quarterly | 11/29/2016 | <0.144 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 8/10/2016 | <0.144 | <1.0 | <1.0 | <1.0 | <1.0 | 0.39J | <1.0 | <2.0 |
| | | 5/18/2016 | <0.144 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 9/5/2013 | <500 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 5/8/2013 | <2.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | <500 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | <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 |
| | | 10/9/2012 | <2.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 7/10/2012 | <500 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 3/20/2012 | <500 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 3S | | 2/14/2013 | <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 |
| 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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 4S | Annual | 11/29/2016 | 1.18 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | 1.5 | 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 |
| | | 7/10/2012 | <500 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 5D | | 10/27/2014 | <0.153 | 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 | | 1,4-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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 5S | Annual | 11/29/2016 | | 1.17 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | | 1.2 | NS | NS | NS | NS | NS | NS | NS |
| | | 12/5/2012 | | <2.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 7/10/2012 | | <500 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 7 | | 10/27/2014 | | <0.150 | NS | NS | NS | NS | NS | NS | NS |
| MW 8 | Annual | 11/29/2016 | | 0.376 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 3/14/2013 | | 0.33 | NS | NS | NS | NS | NS | NS | NS |
| | | 12/7/2012 | | <2.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| 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 | 11/10/2015 | | 0.202 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| DPW WELL | Annual | 11/29/2016 | | <0.142 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 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 | 5/12/2016 | | <0.147 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 5/12/2016 | Duplicate | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 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 | 5/12/2016 | | <0.147 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 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 |

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 280 ALSTON AVENUE | Annual | 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 | 7/21/2016 | | 0.193 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 7/21/2016 | Duplicate | 0.111J | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 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 | 5/12/2016 | | <0.147 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 5/12/2016 | Duplicate | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 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 | 5/12/2016 | | 0.100J | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 5/12/2016 | Duplicate | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 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 |
| | | 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 | 5/13/2016 | | <0.142 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 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 | 5/13/2016 | | <0.144 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 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 | 5/12/2016 | | <0.147 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| | | 3/2/2015 | Inf. | <0.156 | <1.0 | <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 | <1.0 | <2.0 |
| | | 7/23/2014 | | <0.144 | 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 | 1,4-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 |
|---|---|---|---|---|---|---|---|---|---|---|
| 290 OLD ORCHARD ROAD | Annual | 5/16/2013 | 0.068J | 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 |
| | | 2/15/2013 | <0.20 | <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 |

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.

**TABLE 4.1**
**SECTION 2**
**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 | | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Standards | | | | | | | | | | | | |
| 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 |
| Results | | | | | | | | | | | | |
| MW 2D | | 2/14/2013 | | 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 |
| MW 2S | Annual | 11/29/2016 | | <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 |
| | | 12/16/2014 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | | 12/18/2013 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | | 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 |
| | | 7/10/2012 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 3D | Quarterly | 11/29/2016 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | | 8/10/2016 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | | 5/18/2016 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | | 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 | <5.0 |
| | | 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 |

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 | 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 | 2/27/2014 | <0.50 | <1.0 | <1.0 | <1.0 | <1.0 | <0.50 | <1.0 | <1.0 | <1.0 |
| | | 11/25/2013 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 9/5/2013 | <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 |
| | | 2/14/2013 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 12/6/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 10/9/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 7/10/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 3/20/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 3I | Quarterly | 11/29/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | | 8/10/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | | 5/18/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | | 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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 9/5/2013 | <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 |
| | | 2/14/2013 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | 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 |
| | | 10/9/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 7/10/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 3/20/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 3S | | 2/14/2013 | 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 |
| 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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 4S | Annual | 11/29/2016 | <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 |
| | | 12/16/2014 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |

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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 | 10/27/2014 | | 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 |
| | | 2/14/2013 | | 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 |
| | | 7/10/2012 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| 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 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 5S | Annual | 11/29/2016 | | <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 |
| | | 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 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | 12/5/2012 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 7/10/2012 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 7 | | 10/27/2014 | | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| MW 8 | Annual | 11/29/2016 | | <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 |
| | | 12/16/2014 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | | 12/18/2013 | | <0.50 | <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 |
| | | 12/7/2012 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| 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 | 11/10/2015 | | <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 |
| | | 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 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| DPW WELL | Annual | 11/29/2016 | | <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 |
| | | 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 | 5/12/2016 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | | 5/12/2016 | Duplicate | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| | | 6/21/2012 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| 280 ALSTON AVENUE | Annual | 5/12/2016 | | <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 |
| | | 12/17/2014 | | 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 |
| | | 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 |
| 125 MEETINGHOUSE | Annual | 7/21/2016 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | | 7/21/2016 | Duplicate | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | | 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 | <0.50 |
| 170 MEETINGHOUSE | Annual | 5/12/2016 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | | 5/12/2016 | Duplicate | <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 |
| | | 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 | 5/12/2016 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | | 5/12/2016 | Duplicate | <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 |
| | | 2/21/2013 | | 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 |
| | | 2/25/2013 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| 130B OLD ORCHARD | Annual | 5/13/2016 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | | 5/29/2015 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 130B OLD ORCHARD | Annual | 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 |
| | | 2/25/2013 | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| 210 OLD ORCHARD | Annual | 5/13/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | | 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 |
| | | 6/21/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| 290 OLD ORCHARD | Annual | 5/12/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | | 3/2/2015 Inf. | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 |
| | | 3/2/2015 Eff. | <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 |

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**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Standards | | | | | | | | | | | | |
| 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 |
| Results | | | | | | | | | | | | |
| MW 2D | | 2/14/2013 | | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | 12/6/2012 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| MW 2S | Annual | 11/29/2016 | | <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 |
| | | 12/16/2014 | | <2.0 | <1.0 | <2.0 | <1.0 | <2.0 | <5.0 | <2.0 | <5.0 | <2.0 |
| | | 12/18/2013 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 2/14/2013 | | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | 12/6/2012 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 7/10/2012 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| MW 3D | Quarterly | 11/29/2016 | | <2.0 | <1.0 | <2.0 | <1.0 | <2.0 | <5.0 | <2.0 | <5.0 | <2.0 |
| | | 8/10/2016 | | <2.0 | <1.0 | <2.0 | 0.28J | <2.0 | <5.0 | <2.0 | <5.0 | <2.0 |
| | | 5/18/2016 | | <2.0 | <1.0 | <2.0 | 0.23J | <2.0 | <5.0 | <2.0 | <5.0 | <2.0 |
| | | 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 | <5.0 |
| | | 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 | | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <0.50 | <1.0 |
| | | 2/27/2014 | | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <0.50 | <1.0 |
| | | 11/25/2013 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |

Notes:
GW-1 and GW-3 MCP Method 1 Standards
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NS - Not Sampled
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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 | 9/5/2013 | <0.50 | <0.50 | <0.50 | 0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 5/8/2013 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 2/14/2013 | <0.50 | <0.50 | <0.50 | 0.51 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 12/6/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 10/9/2012 | <0.50 | <0.50 | <0.50 | 0.55 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 7/10/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 3/20/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| MW 3I | Quarterly | 11/29/2016 | <2.0 | <1.0 | <2.0 | <1.0 | <2.0 | <5.0 | <2.0 | <5.0 | <2.0 |
| | | 8/10/2016 | <2.0 | <1.0 | <2.0 | <1.0 | <2.0 | <5.0 | <2.0 | <5.0 | <2.0 |
| | | 5/18/2016 | <2.0 | <1.0 | <2.0 | <1.0 | <2.0 | <5.0 | <2.0 | <5.0 | <2.0 |
| | | 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 | <5.0 | <1.0 | <0.50 | <1.0 |
| | | 2/27/2014 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <0.50 | <1.0 |
| | | 11/25/2013 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 9/5/2013 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 5/8/2013 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 2/14/2013 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 2/14/2013 | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | 12/6/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 10/9/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 7/10/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 3/20/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| MW 3S | | 2/14/2013 | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | 12/6/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| 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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| MW 4S | Annual | 11/29/2016 | <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 |
| | | 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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 2/14/2013 | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | 12/6/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 7/10/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |

Notes: GW-1 and GW-3 MCP Method 1 Standards
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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 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| MW 5S | Annual | 11/29/2016 | | <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 |
| | | 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 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 2/14/2013 | | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | 12/5/2012 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 7/10/2012 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| MW 7 | | 10/27/2014 | | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| MW 8 | Annual | 11/29/2016 | | <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 |
| | | 12/16/2014 | | <2.0 | <1.0 | <2.0 | <1.0 | <2.0 | <5.0 | <2.0 | <5.0 | <2.0 |
| | | 12/18/2013 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <5.0 | <0.50 |
| | | 3/14/2013 | | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | 12/7/2012 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 | NS | <0.50 |
| 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 | 11/10/2015 | | <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 | | <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 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 | NS | <0.50 |
| DPW WELL | Annual | 11/29/2016 | | <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 |
| | | 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 | 5/12/2016 | | <2.0 | <1.0 | <2.0 | <1.0 | <2.0 | <5.0 | <2.0 | <5.0 | <2.0 |
| | | 5/12/2016 | Duplicate | <2.0 | <1.0 | <2.0 | <1.0 | <2.0 | <5.0 | <2.0 | <5.0 | <2.0 |
| | | 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 | 5/12/2016 | | <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 | NS | <2.0 | <5.0 | <2.0 |

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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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 280 ALSTON AVENUE | Annual | 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 | 7/21/2016 | | <2.0 | <1.0 | <2.0 | <1.0 | <2.0 | 6.5 | <2.0 | <5.0 | <2.0 |
| | | 7/21/2016 | Duplicate | <2.0 | <1.0 | <2.0 | <1.0 | <2.0 | 7.5 | <2.0 | <5.0 | <2.0 |
| | | 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 | 5/12/2016 | | <2.0 | <1.0 | <2.0 | <1.0 | <2.0 | <5.0 | <2.0 | <5.0 | <2.0 |
| | | 5/12/2016 | Duplicate | <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 | 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 | 5/12/2016 | | <2.0 | <1.0 | <2.0 | <1.0 | <2.0 | <5.0 | <2.0 | <5.0 | <2.0 |
| | | 5/12/2016 | Duplicate | <2.0 | <1.0 | <2.0 | <1.0 | <2.0 | <5.0 | <2.0 | <5.0 | <2.0 |
| | | 8/15/2014 | | NS | 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 |
| | | 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 |
| | | 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 | 5/13/2016 | | <2.0 | <1.0 | <2.0 | <1.0 | <2.0 | <5.0 | <2.0 | <5.0 | <2.0 |
| | | 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 | 5/13/2016 | | <2.0 | <1.0 | <2.0 | <1.0 | <2.0 | <5.0 | <2.0 | <5.0 | <2.0 |
| | | 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 |
| | | 6/21/2012 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 | NS | <0.50 |
| 290 OLD ORCHARD ROAD | Annual | 5/12/2016 | | <2.0 | <1.0 | <2.0 | <1.0 | <2.0 | <5.0 | <2.0 | <5.0 | <2.0 |
| | | 3/2/2015 | Inf. | <2.0 | <1.0 | <2.0 | <1.0 | <2.0 | <5.0 | <2.0 | <5.0 | <2.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 290 OLD ORCHARD ROAD | Annual | 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
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.

**TABLE 4.1**
**SECTION 4**
**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 | | 4-Isopropyltoluene | 4-Methyl-2-pentanone | Acetone | Benzene | Bromobenzene | Bromochloromethane | Bromoform | Bromomethane | Carbon Disulfide | Carbon tetrachloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Standards | | | | | | | | | | | | | |
| 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 |
| Results | | | | | | | | | | | | | |
| MW 2D | | 2/14/2013 | | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | 12/6/2012 | | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| MW 2S | Annual | 11/29/2016 | | <2.0 | <5.0 | <5.0 | <0.50 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 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 | | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| | | 2/14/2013 | | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | 12/6/2012 | | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| | | 7/10/2012 | | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| MW 3D | Quarterly | 11/29/2016 | | <2.0 | <5.0 | <5.0 | 0.6 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 8/10/2016 | | <2.0 | <5.0 | <5.0 | 0.58 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 5/18/2016 | | <2.0 | <5.0 | <5.0 | 0.58 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 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 | Duplicate | <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 |
| | | 9/3/2014 | | <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 | NS | <1.0 |
| | | 2/27/2014 | | <1.0 | <5.0 | <10 | 1.2 | <1.0 | <1.0 | <1.0 | <1.0 | NS | <1.0 |
| | | 11/25/2013 | | <0.50 | <5.0 | <5.0 | 0.96 | <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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW 3D | Quarterly | 9/5/2013 | <0.50 | <5.0 | <5.0 | 1.0 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| | | 5/8/2013 | <0.50 | <5.0 | <5.0 | 0.91 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| | | 2/14/2013 | <0.50 | <5.0 | <5.0 | 1.0 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| | | 12/6/2012 | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| | | 10/9/2012 | <0.50 | <5.0 | <5.0 | 1.2 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| | | 7/10/2012 | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| | | 3/20/2012 | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| MW 3I | Quarterly | 11/29/2016 | <2.0 | <5.0 | <5.0 | <0.50 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 8/10/2016 | <2.0 | <5.0 | <5.0 | <0.50 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 5/18/2016 | <2.0 | <5.0 | <5.0 | <0.5 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 2/23/2016 | <2.0 | <5.0 | <5.0 | <0.5 | <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 | <1.0 |
| | | 8/26/2015 | <2.0 | <5.0 | <5.0 | <0.5 | <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 | <1.0 |
| | | 12/16/2014 | 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 | NS | <5.0 |
| | | 9/3/2014 | <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 | NS | <1.0 |
| | | 2/27/2014 | <1.0 | <5.0 | <10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NS | <1.0 |
| | | 11/25/2013 | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| | | 9/5/2013 | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| | | 5/8/2013 | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| | | 2/14/2013 | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| | | 2/14/2013 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | 12/6/2012 | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| | | 10/9/2012 | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| | | 7/10/2012 | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| | | 3/20/2012 | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| MW 3S | | 2/14/2013 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | 12/6/2012 | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| 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 | <0.50 | <5.0 | <5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| MW 4S | Annual | 11/29/2016 | <2.0 | <5.0 | <5.0 | <0.50 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 11/24/2015 | <2.0 | <5.0 | <5.0 | <0.5 | <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 | <1.0 |
| | | 10/27/2014 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | 12/18/2013 | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| | | 2/14/2013 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | 12/6/2012 | <0.50 | <5.0 | <5.0 | <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
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* 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW 4S | Annual | 7/10/2012 | | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| 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 | | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| MW 5S | Annual | 11/29/2016 | | <2.0 | <5.0 | <5.0 | <0.50 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 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 | | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| | | 2/14/2013 | | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | 12/5/2012 | | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| | | 7/10/2012 | | <0.50 | <5.0 | <5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| MW 7 | | 10/27/2014 | | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| MW 8 | Annual | 11/29/2016 | | <2.0 | <5.0 | <5.0 | <0.50 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 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 | | <0.50 | <5.0 | <5.0 | <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 |
| | | 12/7/2012 | | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| 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 | 11/10/2015 | | <2.0 | <5.0 | 1.6J | <0.50 | <2.0 | <2.0 | <2.0 | <2.0 | 0.42J | <1.0 |
| | | 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 | | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| DPW WELL | Annual | 11/29/2016 | | <2.0 | <5.0 | <5.0 | <0.50 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 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 | Annual | 5/12/2016 | | <2.0 | <5.0 | <5.0 | <0.5 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 5/12/2016 | Duplicate | <2.0 | <5.0 | <5.0 | <0.5 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 4/1/2015 | | <2.0 | <5.0 | <5.0 | <0.50 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 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 | 5/12/2016 | | <2.0 | <5.0 | <5.0 | <0.5 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |

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.
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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 7/21/2016 | | <2.0 | <5.0 | 1.6J | <0.50 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 7/21/2016 | Duplicate | <2.0 | <5.0 | 1.8J | <0.50 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 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 | 5/12/2016 | | <2.0 | <5.0 | <5.0 | <0.5 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 5/12/2016 | Duplicate | <2.0 | <5.0 | <5.0 | <0.5 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 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 |
| 75 OLD ORCHARD | Annual | 5/12/2016 | | <2.0 | <5.0 | <5.0 | <0.5 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 5/12/2016 | Duplicate | <2.0 | <5.0 | <5.0 | <0.5 | <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 |
| | | 2/21/2013 | | 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 | NS | <0.50 |
| | | 6/21/2012 | | <0.50 | NS | NS | <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 | NS | <0.50 |
| | | 6/21/2012 | | <0.50 | NS | NS | <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 | NS | <0.50 |
| | | 2/25/2013 | | <0.50 | <2.5 | <2.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| 130B OLD ORCHARD | Annual | 5/13/2016 | | <2.0 | <5.0 | <5.0 | <0.50 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 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 | NS | <0.50 |
| | | 2/25/2013 | | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| 210 OLD ORCHARD | Annual | 5/13/2016 | | <2.0 | <5.0 | <5.0 | <0.50 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 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 | NS | <0.50 |
| | | 6/21/2012 | | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | NS | <0.50 |
| 290 OLD ORCHARD | Annual | 5/12/2016 | | <2.0 | <5.0 | <5.0 | <0.5 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <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 | | 4-Isopropyltoluene | 4-Methyl-2-pentanone | Acetone | Benzene | Bromobenzene | Bromochloromethane | Bromoform | Bromomethane | Carbon Disulfide | Carbon tetrachloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 290 OLD ORCHARD | Annual | 3/2/2015 | Inf. | <2.0 | <5.0 | <5.0 | <0.50 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 |
| | | 3/2/2015 | Eff. | <2.0 | <5.0 | <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 | NS |
| | | 5/16/2013 | | NS | 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
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.

**TABLE 4.1**
**SECTION 5**
**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 | | Chlorobenzene | Chlorodibromomethane | Chloroethane | Chloroform | Chloromethane | cis-1,2-Dichloroethene | cis-1,3-Dichloropropene | Dibromomethane |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Standards | | | | | | | | | | | |
| 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 |
| Results | | | | | | | | | | | |
| MW 2D | | 2/14/2013 | | 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 |
| MW 2S | Annual | 11/29/2016 | | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <1.0 | <0.50 | <2.0 |
| | | 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 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | | 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 |
| | | 7/10/2012 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 3D | Quarterly | 11/29/2016 | | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | 1.2 | <0.50 | <2.0 |
| | | 8/10/2016 | | 0.80J | <1.0 | <2.0 | <1.0 | <2.0 | 1.3 | <0.50 | <2.0 |
| | | 5/18/2016 | | 0.72J | <1.0 | <2.0 | <1.0 | <2.0 | 1.3 | <0.5 | <2.0 |
| | | 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 | <5.0 |
| | | 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 |

Notes:
GW-1 and GW-3 MCP Method 1 Standards
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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 | Chlorobenzene | Chlorodibromomethane | Chloroethane | Chloroform | Chloromethane | cis-1,2-Dichloroethene | cis-1,3-Dichloropropene | Dibromomethane |
|---|---|---|---|---|---|---|---|---|---|---|
| MW 3D | Quarterly | 2/27/2014 | 1.6 | <5.0 | <1.0 | <1.0 | <1.0 | 2.0 | <0.50 | <1.0 |
| | | 11/25/2013 | <0.50 | <0.50 | 1.3 | <0.50 | 1.4 | <0.50 | <0.50 | <0.50 |
| | | 9/5/2013 | 1.6 | <0.50 | <0.50 | <0.50 | <0.50 | 1.6 | <0.50 | <0.50 |
| | | 5/8/2013 | 1.4 | <0.50 | <0.50 | <0.50 | <0.50 | 1.1 | <0.50 | <0.50 |
| | | 2/14/2013 | 1.6 | <0.50 | <0.50 | <0.50 | <0.50 | 1.5 | <0.50 | <0.50 |
| | | 12/6/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 10/9/2012 | 1.9 | <0.50 | 0.58 | <0.50 | <0.50 | 1.3 | <0.50 | <0.50 |
| | | 7/10/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 3/20/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 3I | Quarterly | 11/29/2016 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <1.0 | <0.50 | <2.0 |
| | | 8/10/2016 | 0.31J | <1.0 | <2.0 | <1.0 | <2.0 | 0.35J | <0.50 | <2.0 |
| | | 5/18/2016 | 0.28J | <1.0 | <2.0 | <1.0 | <2.0 | 0.35J | <0.5 | <2.0 |
| | | 2/23/2016 | 0.27J | <1.0 | <2.0 | <1.0 | <2.0 | 0.29J | <0.5 | <2.0 |
| | | 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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 9/5/2013 | <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 |
| | | 2/14/2013 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.84 | <0.50 | <0.50 |
| | | 2/14/2013 | 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 |
| | | 10/9/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 7/10/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 3/20/2012 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 3S | | 2/14/2013 | 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 |
| 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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 4S | Annual | 11/29/2016 | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <1.0 | <0.50 | <2.0 |
| | | 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 |

Notes: GW-1 and GW-3 MCP Method 1 Standards
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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 | 10/27/2014 | | 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 |
| | | 2/14/2013 | | 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 |
| | | 7/10/2012 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 5D | | 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 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 5S | Annual | 11/29/2016 | | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <1.0 | <0.50 | <2.0 |
| | | 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 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.51 | <0.50 | <0.50 |
| | | 2/14/2013 | | NS | NS | NS | NS | NS | NS | NS | NS |
| | | 12/5/2012 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.51 | <0.50 | <0.50 |
| | | 7/10/2012 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 7 | | 10/27/2014 | | NS | NS | NS | NS | NS | NS | NS | NS |
| MW 8 | Annual | 11/29/2016 | | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <1.0 | <0.50 | <2.0 |
| | | 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 | | <0.50 | <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 |
| | | 12/7/2012 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| 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 | 11/10/2015 | | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <1.0 | <0.50 | <2.0 |
| | | 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 | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| DPW WELL | Annual | 11/29/2016 | | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <1.0 | <0.50 | <2.0 |
| | | 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 | 5/12/2016 | | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <1.0 | <0.5 | <2.0 |
| | | 5/12/2016 | Duplicate | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <1.0 | <0.5 | <2.0 |

Notes:
GW-1 and GW-3 MCP Method 1 Standards
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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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 5/12/2016 | | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <1.0 | <0.5 | <2.0 |
| | | 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 | 7/21/2016 | | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <1.0 | <0.50 | <2.0 |
| | | 7/21/2016 | Duplicate | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <1.0 | <0.50 | <2.0 |
| | | 5/8/2013 | | <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 |
| 170 MEETINGHOUSE ROAD | Annual | 5/12/2016 | | <1.0 | <1.0 | <2.0 | 0.18J | <2.0 | <1.0 | <0.5 | <2.0 |
| | | 5/12/2016 | Duplicate | <1.0 | <1.0 | <2.0 | 0.16J | <2.0 | <1.0 | <0.5 | <2.0 |
| | | 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 | 5/12/2016 | | <1.0 | <1.0 | <2.0 | 1.0 | <2.0 | <1.0 | <0.5 | <2.0 |
| | | 5/12/2016 | Duplicate | <1.0 | <1.0 | <2.0 | 0.98J | <2.0 | <1.0 | <0.5 | <2.0 |
| | | 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 | 5/13/2016 | | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <1.0 | <0.50 | <2.0 |
| | | 5/29/2015 | | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <1.0 | <0.5 | <2.0 |

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 | | Chlorobenzene | Chlorodibromomethane | Chloroethane | Chloroform | Chloromethane | cis-1,2-Dichloroethene | cis-1,3-Dichloropropene | Dibromomethane |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 130B OLD ORCHARD ROAD | Annual | 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 | 5/13/2016 | | <1.0 | <1.0 | <2.0 | 0.25J | <2.0 | <1.0 | <0.50 | <2.0 |
| | | 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 | 5/12/2016 | | <1.0 | <1.0 | <2.0 | <1.0 | <2.0 | <1.0 | <0.5 | <2.0 |
| | | 3/2/2015 | Inf. | <1.0 | <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 | <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 | 0.25J | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/15/2013 | | <0.50 | <0.50 | <0.50 | 0.38J | 0.099J | <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
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.

**TABLE 4.1**
**SECTION 6**
**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 | | Dichlorobromomethane | Dichlorodifluoromethane | Ethylbenzene | Ethyl Ether | ETBE | Hexachlorobutadiene | Isopropylbenzene | Methyl tert-butyl ether | Methylene Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Standards | | | | | | | | | | | | |
| 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 |
| Results | | | | | | | | | | | | |
| MW 2D | | 2/14/2013 | | 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 |
| MW 2S | Annual | 11/29/2016 | | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.60 | <2.0 | <2.0 | <2.0 |
| | | 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 | | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | | 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 |
| | | 7/10/2012 | | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 3D | Quarterly | 11/29/2016 | | <1.0 | <2.0 | <1.0 | 19 | <2.0 | <0.60 | <2.0 | <2.0 | <2.0 |
| | | 8/10/2016 | | <1.0 | <2.0 | <1.0 | 19 | <2.0 | <0.60 | <2.0 | 0.74J | <2.0 |
| | | 5/18/2016 | | <1.0 | 0.28J | <1.0 | 17 | <2.0 | <0.6 | <2.0 | 0.55J | <2.0 |
| | | 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 | 0.89 J | <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 | <5.0 | NS | NS | <5.0 | <5.0 | <5.0 | <5.0 |
| | | 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 |

Notes:
GW-1 and GW-3 MCP Method 1 Standards
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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 3D | Quarterly | 2/27/2014 | <1.0 | <1.0 | <1.0 | NS | NS | <0.50 | <1.0 | 1.2 | <5.0 |
| | | 11/25/2013 | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | 0.92 |
| | | 9/5/2013 | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | 0.95 | <0.50 |
| | | 5/8/2013 | <0.50 | 0.60 | <0.50 | NS | NS | <0.50 | <0.50 | 1.1 | <0.50 |
| | | 2/14/2013 | <0.50 | 0.51 | <0.50 | NS | NS | <0.50 | <0.50 | 1.2 | <0.50 |
| | | 12/6/2012 | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 10/9/2012 | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | 1.6 | <0.50 |
| | | 7/10/2012 | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 3/20/2012 | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 3I | Quarterly | 11/29/2016 | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.60 | <2.0 | <2.0 | <2.0 |
| | | 8/10/2016 | <1.0 | <2.0 | <1.0 | 0.35J | <2.0 | <0.60 | <2.0 | <2.0 | <2.0 |
| | | 5/18/2016 | <1.0 | <2.0 | <1.0 | 0.24J | <2.0 | <0.6 | <2.0 | <2.0 | <2.0 |
| | | 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 | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 9/5/2013 | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 5/8/2013 | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | 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 |
| | | 10/9/2012 | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 7/10/2012 | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 3/20/2012 | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 3S | | 2/14/2013 | 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 |
| 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 | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 4S | Annual | 11/29/2016 | <1.0 | <2.0 | <1.0 | 3.4 | <2.0 | <0.60 | <2.0 | <2.0 | <2.0 |
| | | 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 |

Notes: GW-1 and GW-3 MCP Method 1 Standards
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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 4S | Annual | 10/27/2014 | | 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 |
| | | 2/14/2013 | | 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 |
| | | 7/10/2012 | | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| 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 | | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 5S | Annual | 11/29/2016 | | <1.0 | <2.0 | <1.0 | 2.3 | <2.0 | <0.60 | <2.0 | <2.0 | <2.0 |
| | | 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 | | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | 12/5/2012 | | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 7/10/2012 | | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 7 | | 10/27/2014 | | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| MW 8 | Annual | 11/29/2016 | | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.60 | <2.0 | <2.0 | <2.0 |
| | | 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 | | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 3/14/2013 | | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | 12/7/2012 | | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| 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 | 11/10/2015 | | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.60 | <2.0 | 0.61J | <2.0 |
| | | 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 | | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| DPW WELL | Annual | 11/29/2016 | | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.60 | <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 |
| | | 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 | 5/12/2016 | | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.6 | <2.0 | 0.57J | <2.0 |
| | | 5/12/2016 | Duplicate | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.6 | <2.0 | 0.50J | <2.0 |

Notes: GW-1 and GW-3 MCP Method 1 Standards
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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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 5/12/2016 | | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.6 | <2.0 | <2.0 | <2.0 |
| | | 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 | 7/21/2016 | | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.60 | <2.0 | <2.0 | <2.0 |
| | | 7/21/2016 | Duplicate | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.60 | <2.0 | <2.0 | <2.0 |
| | | 5/8/2013 | | <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 |
| 170 MEETINGHOUSE | Annual | 5/12/2016 | | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.6 | <2.0 | 0.20J | <2.0 |
| | | 5/12/2016 | Duplicate | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.6 | <2.0 | 0.20J | <2.0 |
| | | 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 | 5/12/2016 | | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.6 | <2.0 | <2.0 | <2.0 |
| | | 5/12/2016 | Duplicate | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.6 | <2.0 | <2.0 | <2.0 |
| | | 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 | 5/13/2016 | | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.6 | <2.0 | <2.0 | <2.0 |
| | | 5/29/2015 | | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.6 | <2.0 | <2.0 | <2.0 |

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 | | Dichlorobromomethane | Dichlorodifluoromethane | Ethylbenzene | Ethyl Ether | ETBE | Hexachlorobutadiene | Isopropylbenzene | Methyl tert-butyl ether | Methylene Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 130B OLD ORCHARD | Annual | 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 | 5/13/2016 | | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.6 | <2.0 | <2.0 | <2.0 |
| | | 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 | 5/12/2016 | | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.6 | <2.0 | <2.0 | <2.0 |
| | | 3/2/2015 | Inf. | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.60 | <2.0 | <2.0 | <2.0 |
| | | 3/2/2015 | Eff. | <1.0 | <2.0 | <1.0 | <2.0 | <2.0 | <0.60 | <2.0 | <2.0 | <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 | NS |
| | | 5/9/2013 | | <0.50 | <0.50 | <0.50 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/15/2013 | | <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 |

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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B - Analyte detected in Blank and Sample
* Residential samples will be tested for all VOCs during 2nd quarter of the year.

**TABLE 4.1**
**SECTION 7**
**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 | | Isopropyl Ether | Naphthalene | n-Butylbenzene | N-Propylbenzene | sec-Butylbenzene | Styrene | tert-Butylbenzene | Tetrachloroethene | Toluene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Standards | | | | | | | | | | | | | | |
| 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 |
| Results | | | | | | | | | | | | | | |
| MW 2D | | 2/14/2013 | | 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 |
| MW 2S | Annual | 11/29/2016 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.50 |
| | | 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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | | 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 |
| | | 7/10/2012 | | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 3D | Quarterly | 11/29/2016 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.50 |
| | | 8/10/2016 | | <2.0 | 0.43J | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.50 |
| | | 5/18/2016 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.5 |
| | | 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 |
| | | 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 |
| | | 9/3/2014 | | NS | <5.0 | <5.0 | <5.0 | <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 | 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 | 5/19/2014 | NS | <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 | <0.50 |
| | | 11/25/2013 | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 9/5/2013 | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 5/8/2013 | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 12/6/2012 | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 10/9/2012 | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 7/10/2012 | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 3/20/2012 | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 3I | Quarterly | 11/29/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.50 |
| | | 8/10/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.50 |
| | | 5/18/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.5 |
| | | 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 | <0.50 |
| | | 2/27/2014 | NS | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <0.50 |
| | | 11/25/2013 | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 9/5/2013 | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 5/8/2013 | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | 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 |
| | | 10/9/2012 | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 7/10/2012 | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 3/20/2012 | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 3S | | 2/14/2013 | 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 |
| 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 |
| | | 12/6/2012 | 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
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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* 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 4S | Annual | 11/29/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.50 |
| | | 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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | 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 |
| | | 7/10/2012 | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| 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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 5S | Annual | 11/29/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.50 |
| | | 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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | | 12/5/2012 | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 7/10/2012 | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 7 | | 10/27/2014 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| MW 8 | Annual | 11/29/2016 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.50 |
| | | 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 | <0.50 | <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 |
| | | 12/7/2012 | NS | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| 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 | 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 |
| | | 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 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |

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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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DPW WELL | Annual | 11/29/2016 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.50 |
| | | 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 | 5/12/2016 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.5 |
| | | 5/12/2016 | Duplicate | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.5 |
| | | 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 | 5/12/2016 | | <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 | <0.50 |
| | | 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 | 7/21/2016 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.50 |
| | | 7/21/2016 | Duplicate | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.50 |
| | | 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 | 5/12/2016 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.5 |
| | | 5/12/2016 | Duplicate | <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 | <0.50 |
| | | 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 | 5/12/2016 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.5 |
| | | 5/12/2016 | Duplicate | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.5 |
| | | 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 |

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 5/13/2016 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.5 |
| | | 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 | 5/13/2016 | | <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 | <0.50 | <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 | 5/12/2016 | | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <0.5 |
| | | 3/2/2015 | Inf. | <2.0 | <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 | <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 | NS |
| | | 5/16/2013 | | NS | 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 | <0.50 |
| | | 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
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.

**TABLE 4.1**
**SECTION 8**
**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 | | TAME | Tetrahydrofuran | Trichloroethene | Trichlorofluoromethane | Vinyl chloride | Total Xylenes |
|---|---|---|---|---|---|---|---|---|---|
| Standards | | | | | | | | | |
| 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 |
| Results | | | | | | | | | |
| MW 2D | | 2/14/2013 | | NS | NS | NS | NS | NS | NS |
| | | 12/6/2012 | | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 2S | Annual | 11/29/2016 | | <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 |
| | | 12/16/2014 | | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 12/18/2013 | | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | | NS | NS | NS | NS | NS | NS |
| | | 12/6/2012 | | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 7/10/2012 | | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 3D | Quarterly | 11/29/2016 | | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 8/10/2016 | | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 5/18/2016 | | <2.0 | <2.0 | <1.0 | <2.0 | 0.20J | <1.0 |
| | | 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 | <5.0 |
| | | 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 |

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 | 11/25/2013 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 9/5/2013 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 5/8/2013 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 12/6/2012 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 10/9/2012 | NS | NS | <0.50 | <0.50 | 0.58 | <0.50 |
| | | 7/10/2012 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 3/20/2012 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 3I | Quarterly | 11/29/2016 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 8/10/2016 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 5/18/2016 | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 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 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 9/5/2013 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 5/8/2013 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | NS | NS | NS | NS | NS | NS |
| | | 12/6/2012 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 10/9/2012 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 7/10/2012 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 3/20/2012 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 3S | | 2/14/2013 | NS | NS | NS | NS | NS | NS |
| | | 12/6/2012 | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| 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 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 4S | Annual | 11/29/2016 | <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 |
| | | 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
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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 | | TAME | Tetrahydrofuran | Trichloroethene | Trichlorofluoromethane | Vinyl chloride | Total Xylenes |
|---|---|---|---|---|---|---|---|---|---|
| MW 4S | Annual | 12/18/2013 | | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | | NS | NS | NS | NS | NS | NS |
| | | 12/6/2012 | | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 7/10/2012 | | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| 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 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 5S | Annual | 11/29/2016 | | <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 |
| | | 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 | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 2/14/2013 | | NS | NS | NS | NS | NS | NS |
| | | 12/5/2012 | | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 7/10/2012 | | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| MW 7 | | 10/27/2014 | | NS | NS | NS | NS | NS | NS |
| MW 8 | Annual | 11/29/2016 | | <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 |
| | | 12/16/2014 | | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 12/18/2013 | | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| | | 3/14/2013 | | NS | NS | NS | NS | NS | NS |
| | | 12/7/2012 | | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| 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 | 11/10/2015 | | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 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 | <0.50 | <0.50 | <0.50 | <0.50 |
| DPW WELL | Annual | 11/29/2016 | | <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 |
| | | 12/16/2014 | | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| 265 ALSTON AVENUE | Annual | 5/12/2016 | | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 5/12/2016 | Duplicate | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 4/1/2015 | | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |

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.
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 |
|---|---|---|---|---|---|---|---|---|---|
| 265 ALSTON AVENUE | Annual | 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 | 5/12/2016 | | <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 |
| | | 12/17/2014 | | 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 | 7/21/2016 | | <2.0 | 5.8 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 7/21/2016 | Duplicate | <2.0 | 8.2 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 5/8/2013 | | NS | NS | <0.50 | <0.50 | <0.50 | <1.0 |
| | | 6/21/2012 | | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| 170 MEETINGHOUSE ROAD | Annual | 5/12/2016 | | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 5/12/2016 | Duplicate | <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 |
| | | 8/15/2014 | | NS | NS | NS | NS | NS | NS |
| | | 2/15/2013 | | NS | NS | NS | NS | NS | NS |
| | | 12/8/2012 | | NS | NS | <0.50 | <0.50 | <0.50 | <0.50 |
| 75 OLD ORCHARD ROAD | Annual | 5/12/2016 | | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 5/12/2016 | Duplicate | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 8/15/2014 | | NS | NS | NS | NS | NS | NS |
| | | 2/21/2013 | | 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 |
| 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 | 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 | 5/13/2016 | | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 5/29/2015 | | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 12/17/2014 | | 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 |
|---|---|---|---|---|---|---|---|---|---|
| 130B OLD ORCHARD ROAD | Annual | 12/18/2013 | | NS | NS | <0.50 | <0.50 | <0.50 | <1.0 |
| | | 2/25/2013 | | NS | NS | NS | NS | NS | NS |
| 210 OLD ORCHARD ROAD | Annual | 5/13/2016 | | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 12/18/2013 | | NS | NS | <0.50 | <0.50 | <0.50 | <1.0 |
| | | 2/15/2013 | | 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 |
| 290 OLD ORCHARD ROAD | Annual | 5/12/2016 | | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 3/2/2015 | Inf. | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 3/2/2015 | Eff. | <2.0 | <2.0 | <1.0 | <2.0 | <1.0 | <1.0 |
| | | 7/23/2014 | | NS | NS | NS | NS | NS | NS |
| | | 5/16/2013 | | NS | 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 | <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.

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Standards | | | | | | | | | | | | | | |
| 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 |
| Results | | | | | | | | | | | | | | |
| ESMW-1D | SemiAnnually | 9/21/2016 | <5.0 | 6.0J | <4.0 | <10 | <10 | 1100 | 2.0J | 308 | <0.2 | 3.0J | <7.0 | <50 |
| ESMW-1I | SemiAnnually | 9/21/2016 | <5.0 | 56 | <4.0 | 3.2J | 2.0J | 960 | <10 | 60 | <0.2 | <10 | <7.0 | 8.0J |
| ESMW-1S | SemiAnnually | 9/21/2016 | 2.0J | 182 | <4.0 | <10 | 2.0J | 20J | <10 | 576 | <0.2 | <10 | <7.0 | 12J |
| ESMW-2D | SemiAnnually | 9/21/2016 | <5.0 | 3.0J | <4.0 | <10 | <10 | 310 | <10 | 98 | <0.2 | <10 | <7.0 | <50 |
| ESMW-2I | SemiAnnually | 9/21/2016 | 16 | 204 | 1.0J | 200 | 151 | 51000 | 65 | 424 | <0.2 | <10 | <7.0 | 289 |
| ESMW-2S | SemiAnnually | 9/21/2016 | <5.0 | 34 | <4.0 | 20 | 6.0J | 4400 | 5.0J | 56 | <0.2 | <10 | <7.0 | 12J |
| ESMW-3D | SemiAnnually | 9/21/2016 | 58 | 331 | 1.0J | 400 | 169 | 140000 | 140 | 1470 | <0.2 | <10 | <7.0 | 527 |
| ESMW-3I | SemiAnnually | 9/21/2016 | 15 | 71 | <4.0 | 80 | 28 | 32000 | 21 | 1790 | <0.2 | <10 | <7.0 | 95 |
| ESMW-3S | SemiAnnually | 9/21/2016 | 21 | 126 | <4.0 | 180 | 49 | 56000 | 39 | 785 | <0.2 | <10 | <7.0 | 175 |
| ESMW-4D | SemiAnnually | 9/21/2016 | <5.0 | 15 | <4.0 | 3.7J | 4.0J | 2300 | 3.0J | 87 | <0.2 | <10 | <7.0 | 9.0J |
| ESMW-4I | SemiAnnually | 9/21/2016 | <5.0 | 11 | <4.0 | <10 | 2.0J | 90 | <10 | 201 | <0.2 | <10 | <7.0 | <50 |
| MW 2D | | 12/6/2012 | <3 | 3.2 | <3 | <3 | <3 | <100 | <3 | 51 | <0.5 | <15 | <2.0 | <60 |
| MW 2S | Annual | 11/29/2016 | <5 | 11 | <4 | <10 | <10 | 420 | <10 | 381 | <0.2 | <10 | <7 | <50 |
| | | 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 | <10 | <10 | 430 | <10 | 311 | <0.2 | <10 | <7 | <50 |
| | | 12/18/2013 | <3 | 10 | <3 | <3 | <3 | 500 | <3 | 410 | <0.3 | <15 | <3.0 | <60 |
| | | 12/6/2012 | <3 | 13 | <3 | <3 | <3 | 680 | <3 | 430 | <0.5 | <15 | <2.0 | <60 |
| | | 7/10/2012 | <3 | 13 | <3 | <3 | <3 | 580 | <3 | 390 | <0.5 | <15 | <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.

| Property | Sample Frequency | Date | | Arsenic | Barium | Cadmium | Chromium | Copper | Iron | Lead | Manganese | Mercury | Selenium | Silver | Zinc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW 3D | Quarterly | 11/29/2016 | | 45 | 44 | <4 | <10 | <10 | 22000 | <10 | 1230 | <0.2 | <10 | <7 | <50 |
| | | 8/10/2016 | | 72 | 66 | <4 | <10 | <10 | 30000 | 2J | 1230 | <0.2 | <10 | <7 | <50 |
| | | 5/18/2016 | | 89 | 72 | <4 | <10 | <10 | 32000 | <100 | 1170 | <0.2 | <10 | <7 | <50 |
| | | 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 | <10 | <10 | 30000 | <10 | 1220 | <1.0 | <10 | <7 | 60 |
| | | 5/13/2015 | | 70 | 74 | <4 | <10 | <10 | 30000 | <10 | 1220 | <0.2 | 6.0 J | <7 | <50 |
| | | 11/10/2014 | | 70 | 81 | <3 | 5 | <3 | 33000 | <3 | 1400 | <0.3 | <15 | <2 | <60 |
| | | 11/10/2014 | Duplicate | 71 | 82 | <3 | 5.2 | <3 | 32000 | <3 | 1400 | <0.3 | <15 | <2 | <60 |
| | | 9/3/2014 | | 73 | 86 | <3 | 6.0 | <3 | 35000 | <3 | 1400 | <0.3 | <15 | <2 | <60 |
| | | 5/19/2014 | | 66 | 82 | <3 | <3 | <3 | 31000 | <3 | 1300 | 82 | <15 | <2 | <60 |
| | | 2/27/2014 | | 54 | 77 | <1 | <2 | <3 | 42000 | <6 | 1800 | <0.5 | <6.0 | <2 | 12 |
| | | 11/25/2013 | | 68 | 88 | <3 | 3.3 | <3 | 30000 | <3 | 1400 | NS | <15 | <3.0 | <60 |
| | | 9/5/2013 | | 64 | 89 | <3 | 4.7 | <3 | 36000 | <3 | 1300 | <0.3 | <15 | <3.0 | <60 |
| | | 5/8/2013 | | 74 | 96 | <3 | 6.3 | <3 | 40000 | <3 | 1300 | <0.5 | <15 | <3.0 | <60 |
| | | 2/14/2013 | | 68 | 96 | <3 | 5.9 | <3 | 40000 | <3 | 1700 | <0.5 | <15 | <2.0 | <60 |
| | | 12/6/2012 | | 62 | 97 | <3 | <3 | <3 | 40000 | <3 | 1800 | <0.5 | <15 | <2.0 | <60 |
| | | 10/9/2012 | | 65 | 90 | <3 | 3.0 | <3 | 39000 | <3 | 1400 | <0.5 | <15 | <2.0 | <100 |
| | | 7/10/2012 | | 66 | 99 | <3 | <3 | <3 | 38000 | <3 | 1400 | <0.5 | <15 | <2.0 | <100 |
| | | 3/20/2012 | | 69 | 100 | <3 | <3 | <3 | 40000 | <3 | 1700 | <0.5 | <15 | <2.0 | <60 |
| MW 3I | Quarterly | 11/29/2016 | | 26 | <10 | <4 | <10 | <10 | 53000 | <10 | 1210 | <0.2 | <10 | <7 | <50 |
| | | 8/10/2016 | | 42 | 9.7J | <4 | <10 | <10 | 57000 | 3J | 1160 | <0.2 | <10 | <7 | <50 |
| | | 5/18/2016 | | 71 | 13 | <4 | <10 | <10 | 63000 | <100 | 1270 | <0.2 | <10 | <7 | <50 |
| | | 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 |
| | | 8/26/2015 | | 44 | 10 | <4 | <10 | <10 | 61000 | <10 | 1190 | <1.0 | <10 | <7 | 46 J |
| | | 5/13/2015 | | 42 | 9.0 J | <4 | <10 | <10 | 52000 | <10 | 996 | <0.2 | <10 | <7 | <50 |
| | | 11/10/2014 | | 44 | 11 | <3 | <3 | <3 | 64000 | <3 | 1100 | <0.3 | <15 | <2 | <60 |
| | | 9/3/2014 | | 43 | 10 | <3 | <3 | <3 | 69000 | <3 | 1100 | <0.3 | <15 | <2 | <60 |
| | | 5/19/2014 | | 41 | 11 | <3 | <3 | <3 | 64000 | <3 | 1100 | <0.3 | <15 | <2 | <60 |
| | | 2/27/2014 | | 23 | 10 | 5.0 | <2 | <3 | 78000 | <6 | 1400 | <0.5 | <6.0 | <2 | 16 |
| | | 11/25/2013 | | <3 | 7.1 | <3 | <3 | <3 | 33000 | <3 | 1100 | NS | <15 | <3.0 | <60 |
| | | 9/5/2013 | | 38 | 10 | <3 | <3 | <3 | 68000 | <3 | 1100 | <0.3 | <15 | <3.0 | <60 |
| | | 5/8/2013 | | 37 | 9 | <3 | <3 | <3 | 64000 | <3 | 980 | <0.5 | <15 | <3.0 | <60 |
| | | 2/14/2013 | | 41 | 12 | <3 | <3 | <3 | 69000 | <3 | 1100 | <0.5 | <15 | <2.0 | <60 |
| | | 12/6/2012 | | 39 | 11 | <3 | <3 | <3 | 72000 | <3 | 1100 | <0.5 | <15 | <2.0 | <60 |
| | | 10/9/2012 | | 40 | 11 | <3 | <3 | <3 | 65000 | <3 | 1000 | <0.5 | <15 | <2.0 | <100 |
| | | 7/10/2012 | | 42 | <3 | <3 | <3 | <3 | 68000 | <3 | 1100 | <0.5 | <15 | <2.0 | <100 |
| | | 3/20/2012 | | 44 | 11 | <3 | <3 | <3 | 65000 | <3 | 1400 | <0.5 | <15 | <2.0 | <60 |
| MW 3S | | 12/6/2012 | | <3 | 30 | <3 | <3 | <3 | 250 | <3 | 280 | <0.5 | <15 | <2.0 | <60 |
| MW 4D | | 12/6/2012 | | <3 | 28 | <3 | <3 | <3 | <100 | <3 | 160 | <0.5 | <15 | <2.0 | <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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW 4S | Annual | 11/29/2016 | | <5 | 28 | <4 | <10 | <10 | 2100 | <10 | 4660 | <0.2 | <10 | <7 | <50 |
| | | 11/24/2015 | | <5 | 29 | <4 | 4.9J | <10 | 2800 | <10 | 5010 | <0.2 | <10 | <7 | <50 |
| | | 12/16/2014 | | 6.0 | 35 | <4 | <10 | <10 | 8700 | <10 | 2690 | <0.2 | <10 | <7 | <50 |
| | | 12/18/2013 | | <3 | 24 | <3 | <3 | <3 | 2100 | <3 | 4200 | <0.3 | <15 | <3.0 | <60 |
| | | 12/6/2012 | | 3.4 | 28 | <3 | <3 | <3 | 2400 | <3 | 5100 | <0.5 | <15 | <2.0 | <60 |
| | | 7/10/2012 | | <3 | 31 | <3 | <3 | <3 | 2400 | <3 | 4400 | <0.5 | <15 | <2.0 | <100 |
| MW 5D | | 12/5/2012 | | <3 | 64 | <3 | <3 | <3 | <150 | <3 | 51 | <0.5 | <15 | <2.0 | <60 |
| MW 5S | Annual | 11/29/2016 | | <5 | 37 | <4 | <10 | <10 | 7800 | <10 | 2810 | <0.2 | <10 | <7 | <50 |
| | | 11/24/2015 | | <5 | 49 | <4 | 5J | <10 | 6800 | <10 | 2700 | <0.2 | <10 | <7 | <50 |
| | | 12/16/2014 | | <5.0 | 22 | <4 | <10 | <10 | 2000 | 2.0 J | 4530 | <0.2 | <10 | <7 | <50 |
| | | 12/18/2013 | | <3 | 37 | <3 | <3 | <3 | 8600 | <3 | 3200 | <0.3 | <15 | <3.0 | <60 |
| | | 12/5/2012 | | <3 | 44 | <3 | <3 | <3 | 5500 | <3 | 3600 | <0.5 | <15 | <2.0 | <60 |
| | | 7/10/2012 | | <3 | 47 | <3 | <3 | <3 | 8500 | <3 | 3200 | <0.5 | <15 | <2.0 | <100 |
| MW 8 | Annual | 12/18/2013 | | <3 | 35 | <3 | <3 | <3 | <100 | <3 | 300 | <0.3 | <15 | <3.0 | <60 |
| 265 ALSTON AVENUE | Annual | 5/12/2016 | | <0.5 | 13.8 | <0.5 | <1 | 80.8 | <50 | 1.6 | 2.8 | <0.2 | <5.0 | <0.5 | 32.1 |
| | | 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 | <0.5 | 0.43J | 220B | NS | 1.2 | NS | <0.20 | <1.0 | <0.50 | 39B |
| | | 12/6/2012 | | <3 | 13 | <3 | <3 | 27 | NS | 3.3 | NS | <0.5 | <15 | <3.0 | <60 |
| | | 6/21/2012 | | <10 | 10 | <1 | <2 | <100 | <100 | <6 | <100 | <0.5 | <6.0 | <2.0 | <100 |
| 280 ALSTON AVENUE | Annual | 5/12/2016 | | <0.5 | 12.5 | <0.5 | <1 | 99.6 | 165 | <1.0 | 13.9 | <0.2 | <5.0 | <0.5 | 44.7 |
| | | 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 | <0.5 | 0.29J | 840B | NS | 1.9 | NS | <0.20 | <1.0 | 0.025J | 1200B |
| | | 12/6/2012 | | <3 | 19 | <3 | <3 | 1300 | NS | 5.1 | NS | <0.5 | <15 | <3.0 | 350 |
| | | 6/21/2012 | | <10 | 14 | <1 | <2 | <100 | <100 | <6 | <100 | <0.5 | <6.0 | <2.0 | <100 |
| 125 MEETINGHOUSE ROAD | Annual | 7/21/2016 | | 3J | 45 | <4 | <10 | NS | NS | <10 | NS | <0.2 | <10 | <7 | 22J |
| | | 7/21/2016 | Duplicate | <5 | 49 | <4 | <10 | NS | NS | <10 | NS | <0.2 | <10 | <7 | 16J |
| | | 5/8/2013 | | <3 | 42 | <3 | <3 | 25 | NS | <3 | NS | <0.3 | <15 | <3.0 | <60 |
| | | 6/21/2012 | | <10 | 42 | <1 | <2 | <100 | <100 | <6 | 430 | <0.5 | <6.0 | <2.0 | <100 |
| 75 OLD ORCHARD ROAD | Annual | 5/12/2016 | | <0.5 | 7.6 | <0.5 | 2.0 | 1844 | 90 | 4.3 | 4.5 | <0.2 | <5.0 | <0.5 | 157.3 |
| | | 12/6/2012 | | <3 | 9 | <3 | <3 | 79 | NS | <3 | NS | <0.5 | <15 | <3.0 | <60 |
| | | 6/21/2012 | | <10 | 6 | <1 | <2 | <100 | <100 | <6 | <100 | <0.5 | <6.0 | <2.0 | <100 |
| 130 OLD ORCHARD ROAD | | 12/6/2012 | | <3 | 16 | <3 | <3 | 18 | NS | <3 | NS | <0.5 | <15 | <3.0 | <60 |
| | | 6/21/2012 | | <10 | 12 | <1 | <2 | <100 | <100 | <6 | <100 | <0.5 | <6.0 | <2.0 | <100 |
| 130A OLD ORCHARD ROAD | Annual | 5/29/2015 | | <0.5 | 11.4 | <0.2 | <3 | 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 | 16B | <0.5 | 0.21J | 180B | NS | 0.91J | NS | <0.20 | <1.0 | 0.037J | 13B |

Notes:
GW-1 and GW-3 MCP Method 1 Standards
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* 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 130B OLD ORCHARD ROAD | Annual | 5/13/2016 | | <0.5 | 23.8 | <0.5 | 1.3 | 29.6 | <50 | <1.0 | 3 | <0.2 | <5.0 | <0.5 | <10 |
| | | 5/29/2015 | | <0.5 | 11.0 | <0.2 | <3 | 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 | 13B | <0.5 | 0.074J | 92B | NS | 0.63J | NS | <0.20 | <1.0 | <0.50 | 16B |
| 210 OLD ORCHARD ROAD | Annual | 5/13/2016 | | <0.5 | 65.8 | <0.5 | 1.2 | 127.8 | 81 | <1.0 | 2069 | <0.2 | <5.0 | <0.5 | <10 |
| | | 12/18/2013 | | <1 | 59B | <0.5 | <1.5 | 50B | NS | 4.1 | NS | <0.20 | <1.0 | <0.50 | 89B |
| | | 12/6/2012 | | <3 | 55 | <3 | <3 | 18 | NS | <3 | NS | <0.5 | <15 | <3.0 | <60 |
| | | 6/21/2012 | | <10 | 54 | <1 | <2 | <100 | <100 | <6 | 540 | <0.5 | <6.0 | <2.0 | <100 |
| 290 OLD ORCHARD ROAD | Annual | 5/12/2016 | | <0.5 | 43.5 | <0.5 | <1 | 238 | <50 | 3.3 | 89.1 | <0.2 | <5.0 | <0.5 | 26.3 |
| | | 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 | <2 | 160 | <100 | <6 | <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.

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

**Eastham Landfill**
**Eastham, MA**

| Property | Sample Frequency | Date | Alkalinity mg/L as CaCO | Chloride mg/L | COD mg/L | Total Cyanide mg/L | Nitrate mg/L | Sulfate mg/L | Total Dissolved Solids mg/L |
|---|---|---|---|---|---|---|---|---|---|
| Standards | | | | | | | | | |
| MMCL | | | | | | 0.2 | 10 | | |
| SMCL | | | | 250 | | | | 250 | 500 |
| Results | | | | | | | | | |
| ESMW-1D | SemiAnnually | 9/21/2016 | NS | NS | NS | NS | 1.71 | 8.3J | NS |
| ESMW-1I | SemiAnnually | 9/21/2016 | NS | NS | NS | NS | 16.4 | 6.4J | NS |
| ESMW-1S | SemiAnnually | 9/21/2016 | NS | NS | NS | NS | 32.8 | 13 | NS |
| ESMW-2D | SemiAnnually | 9/21/2016 | NS | NS | NS | NS | <0.1 | 14 | NS |
| ESMW-2I | SemiAnnually | 9/21/2016 | NS | NS | NS | NS | 0.030J | 2.2J | NS |
| ESMW-2S | SemiAnnually | 9/21/2016 | NS | NS | NS | NS | <0.1 | 1.8J | NS |
| ESMW-3D | SemiAnnually | 9/21/2016 | NS | NS | NS | NS | 1.23 | 10 | NS |
| ESMW-3I | SemiAnnually | 9/21/2016 | NS | NS | NS | NS | <0.1 | 6.5J | NS |
| ESMW-3S | SemiAnnually | 9/21/2016 | NS | NS | NS | NS | 1.59 | 18 | NS |
| ESMW-4D | SemiAnnually | 9/21/2016 | NS | NS | NS | NS | 2.8 | 5.8J | NS |
| ESMW-4I | SemiAnnually | 9/21/2016 | NS | NS | NS | NS | 4.31 | 7.4J | NS |
| MW 2D | | 12/6/2012 | 23 | 22 | <3.0 | NS | 0.6 | 6.7 | 81 |
| MW 2S | Annual | 11/29/2016 | 121 | 22 | 26 | <0.005 | <0.100 | 25 | 150 |
| | | 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 |
| | | 7/10/2012 | 150 | 28 | 10 | <0.010 | 0.27 | 36 | 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 mg/L as CaCO | Chloride mg/L | COD mg/L | Total Cyanide mg/L | Nitrate mg/L | Sulfate mg/L | Total Dissolved Solids mg/L |
|---|---|---|---|---|---|---|---|---|---|---|
| MW 3D | Quarterly | 11/29/2016 | | 557 | 56 | 52 | <0.005 | <0.100 | 56 | 460 |
| | | 8/10/2016 | | 561 | 64 | 44 | <0.005 | <0.100 | 49 | 530 |
| | | 5/18/2016 | | 599 | 65 | 47 | <0.005 | 0.048J | 50 | 600 |
| | | 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 | 11/29/2016 | | 156 | 10 | 26 | <0.005 | 0.154 | 40 | 130 |
| | | 8/10/2016 | | 142 | 10 | 11.J | <0.005 | <0.100 | 20 | 240 |
| | | 5/18/2016 | | 161 | 11 | 17.J | <0.005 | 0.108 | 34 | 210 |
| | | 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 |
| | | 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 |

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 mg/L as CaCO | Chloride mg/L | COD mg/L | Total Cyanide mg/L | Nitrate mg/L | Sulfate mg/L | Total Dissolved Solids mg/L |
|---|---|---|---|---|---|---|---|---|---|
| MW 4S | Annual | 11/29/2016 | 173 | 22 | 26 | <0.005 | <0.100 | 20 | 180 |
| | | 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 | 11/29/2016 | 190 | 32 | 33 | <0.005 | <0.100 | 22 | 210 |
| | | 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.

Eastham Landfill
Private Well Sampling Log

* please measure well depth + note well location on a sketch.

Date: 9/1/16
Sampler: DB
Weather Conditions: 70's, overcast, light rain, 0-5mph wind
Temperature:

Location: 55 Salt Pond Rd
Property Owner: Jim McGrath – Clay Lory is tenant (not available)
Property Contact: 774-722-3330
Phone:
Email:
Contact Log Attached: Yes: No:

Analysis Required: 1,4-Dioxane (8270 SIM)
Analytical Lab: Alpha
Sample Location: Basement - from drain spigot @ pressure tank
Describe water system including treatment: No treatment, simple in well pump w/ newer bladder holding tank (pressure tank)
Water meter reading: None available

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters
Purge Time: Start: 0900 Finish: 0905

| Time | pH | DO | Conductivity | Temperature |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Volume Purged: gallons
Equipment Utilized:
Attach Equipment Calibration Log:

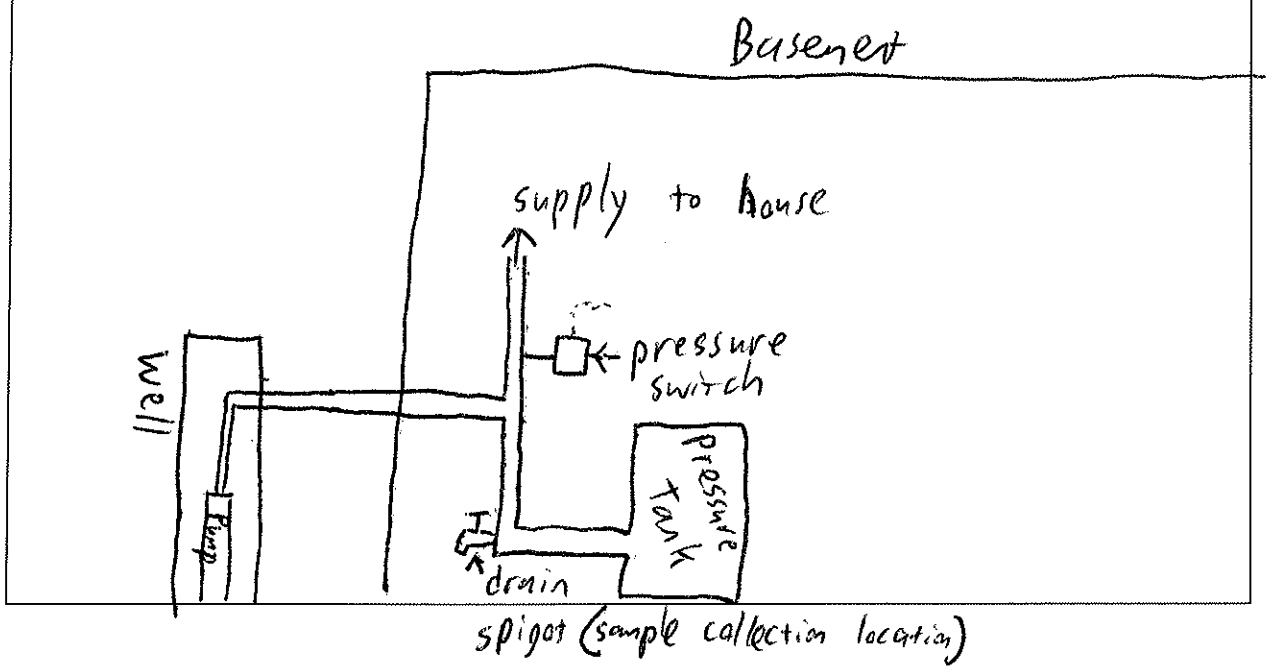
Eastham Landfill
Private Well Sampling Log

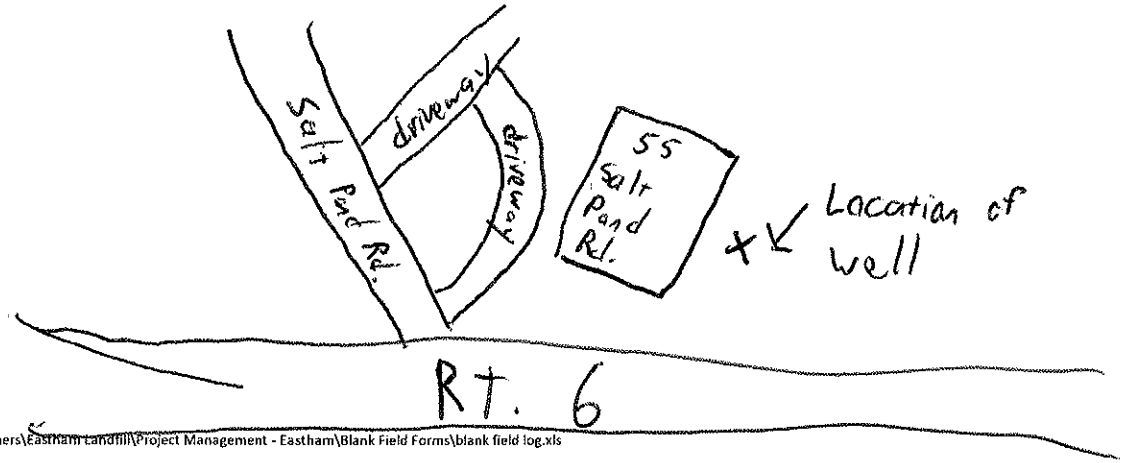
Well Depth: Measured or Provided? 55.60 - measured

Summary of Sampling and Monitoring Activities:

Sample collected @ 0905
DUP sample collected @ 0910
Analyses 1,4 Dioxane by 8270
Homeowner (Jim) states that area around well head experiences frequent flooding due to road run-off from Rt. 6

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



Eastham Landfill
Private Well Sampling Log

Date: 10/5/16

Sampler: DB

Weather Conditions: Overcast, light rain, 5-10 mph wind

Temperature: 57°F

Location: 14 Wood Duck Ln.

Analysis Required: 1,4-Dioxane (8270 SIM)

Analytical Lab: Alpha

Sample Location: Outside Spigot on left side of house. Collected @ 1430. Dup @ 1435

Describe water system including treatment: Unknown - no access to house

Water meter reading: NA

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters

Purge Time: Start: 1420 Finish: 1430

Volume Purged: _____ gallons

Equipment Utilized: _____

Attach Equipment Calibration Log: _____

**Well Depth: (Measured) or Provided?**

DTW: 36.74

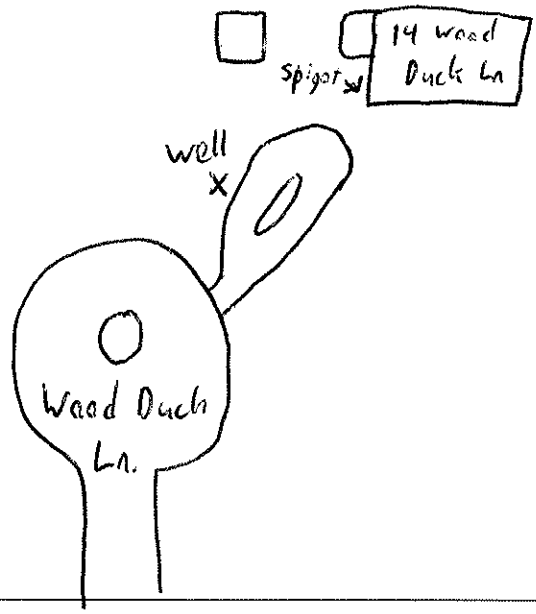
DTB: 54.24

Eastham Landfill
Private Well Sampling Log

Propery Address: 14 Wood Duck Ln.
Date: 10/5/16

Complete sketch of treatment system, if applicable:

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



Eastham Landfill
Private Well Sampling Log

Date: 10/5/16
Sampler: DB
Weather Conditions: overcast, 5-10 mph wind
Temperature: 57°F

Location: 80 Kingsbury Beach Rd.
Analysis Required: 1,4-Dioxane (8270 SIM)
Analytical Lab: Alpha
Sample Location: Kitchen Sink. Collected @ 1340, DUP @ 1345
Describe water system including treatment: Spoke w/ Shawn. He claims there is no treatment or water softening system. Unable to access basement to verify.
Water meter reading: NA

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters
Purge Time: Start: 1335 Finish: 1340

Volume Purged: _____ gallons
Equipment Utilized: _____
Attach Equipment Calibration Log: _____

**Well Depth: (Measured) or Provided?**

DTW: 26.22
DTB: 30.02

Eastham Landfill
Private Well Sampling Log

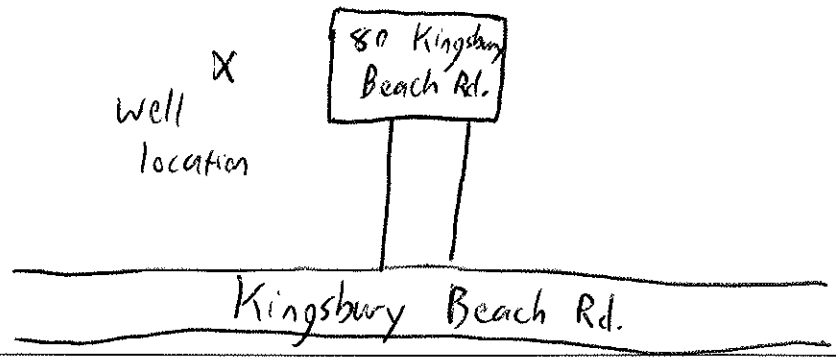
Propery Address: 80 Kingsbury Beach Rd.
Date: 10/5/16

Complete sketch of treatment system, if applicable:

NA

no access to basement

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



Eastham Landfill
Private Well Sampling Log

Date: 10/5/16

Sampler: DB

Weather Conditions: overcast, 5-10 mph wind

Temperature: 57°F

Location: 25 Salt Pond Rd.

Analysis Required: 1,4-Dioxane (8270 SIM)

Analytical Lab: Alpha

Sample Location: Kitchen sink. Collected @ 1300, DUP @ 1305

Describe water system including treatment: System uses a dual tank water softening system with calcite salt.

Water meter reading: NA

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters

Purge Time: Start: 1255 Finish: 1300

Volume Purged: _____ gallons

Equipment Utilized: _____

Attach Equipment Calibration Log: _____

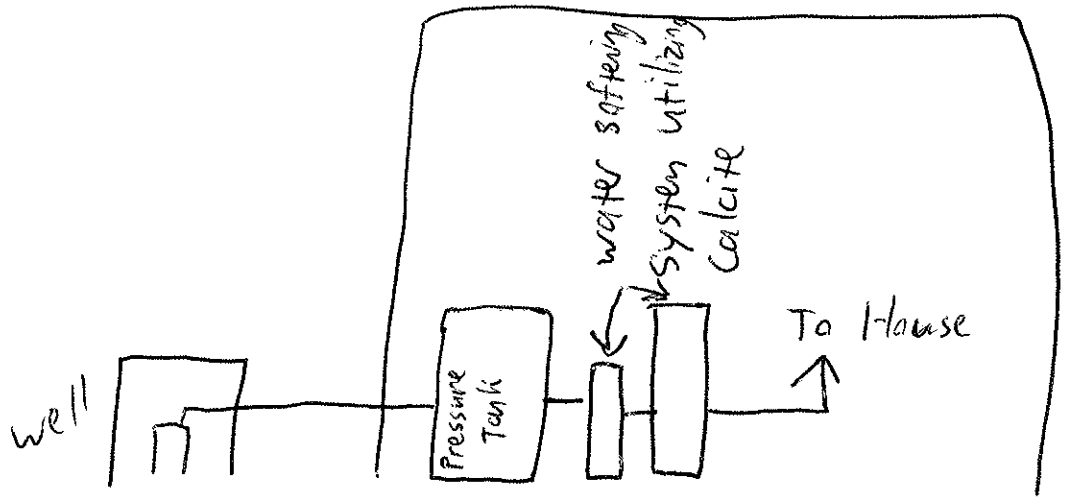
**Well Depth: Measured or Provided?**

Unable to access well. Well head has been buried in the front yard according to Elizabeth Butz.

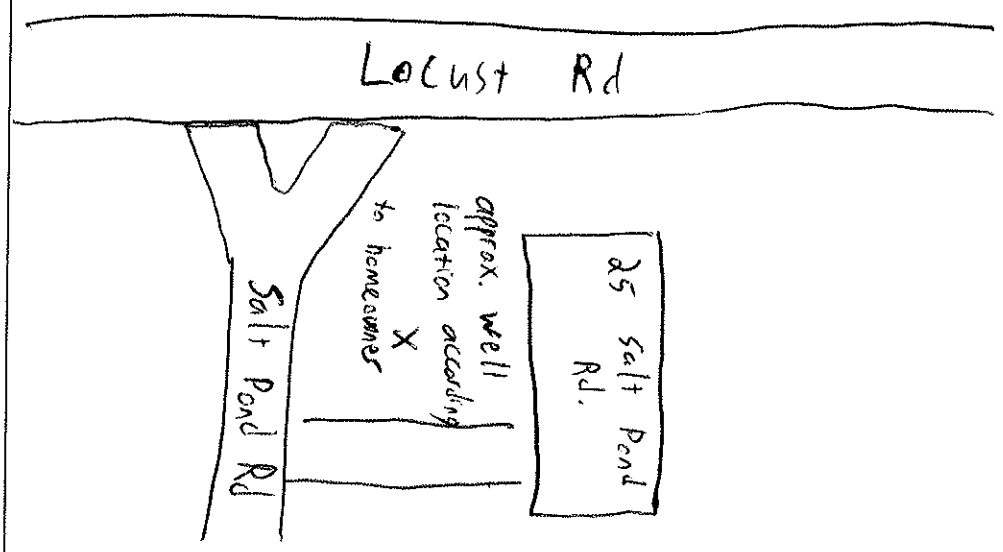
Eastham Landfill
Private Well Sampling Log

Propery Address: 25 Salt Pond Rd.
Date: 10/5/16

Complete sketch of treatment system, if applicable:




Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



Eastham Landfill
Private Well Sampling Log

Date: 10/5/16
Sampler: DB
Weather Conditions: overcast, 5-10mph wind
Temperature: 57°F

Location: 10 Split Rail Rd.
Analysis Required: 1,4-Dioxane (8270 SIM)
Analytical Lab: Alpha
Sample Location: Kitchen Sink. Collected @1235, DUP @ 1240
Describe water system including treatment: No treatment - in well pump w/ bladder style pressure tank
Water meter reading: NA

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters
Purge Time: Start: 1230 Finish: 1235

Volume Purged: _____ gallons
Equipment Utilized: _____
Attach Equipment Calibration Log: _____

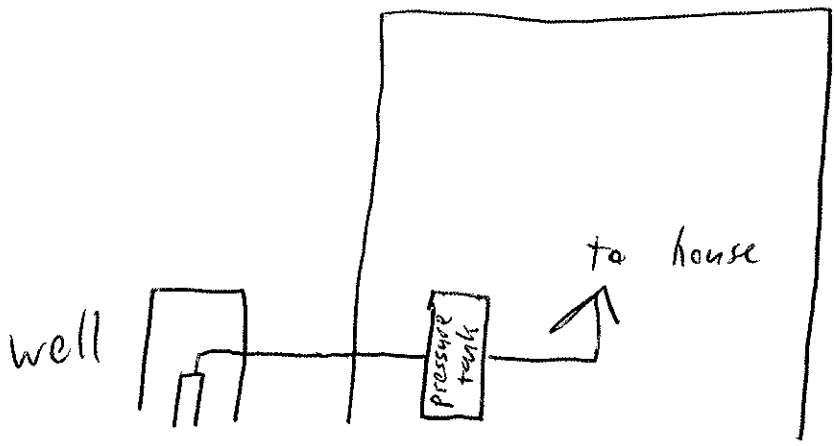
**Well Depth: Measured or Provided?**

Unable to access well. Bolts that hold down well cap very rusted. Realtor Bud Macomber did not want to risk breaking the bolts.

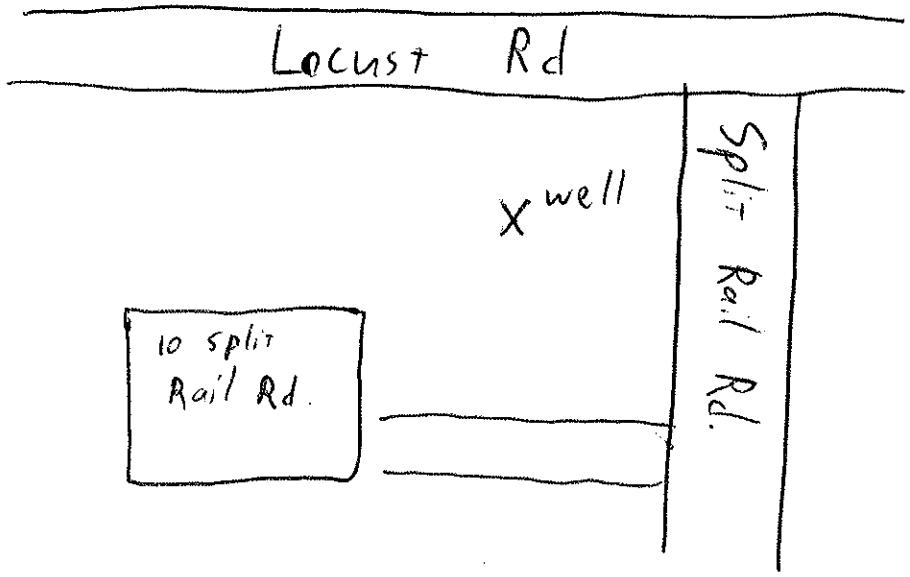
Eastham Landfill
Private Well Sampling Log

Propery Address: 10 Split Rail Rd.
Date: 10/5/16

Complete sketch of treatment system, if applicable:




Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



Eastham Landfill
Private Well Sampling Log

Date: 10/5/16
Sampler: DB
Weather Conditions: overcast, 0-5 mph wind
Temperature: 57 °F

Location: 100 Kingsbury Beach Rd.
Analysis Required: 1,4-Dioxane (8270 SIM)
Analytical Lab: Alpha
Sample Location: Kitchen Sink. Collected @ 1125, DUP @ 1130
Describe water system including treatment: Salt-less water softening system with post cartridge style sediment filter
Water meter reading: NA

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters

Purge Time: Start: 1115 Finish: 1125

Volume Purged: _____ gallons
Equipment Utilized: _____
Attach Equipment Calibration Log: _____

**Well Depth: (Measured) or Provided?**

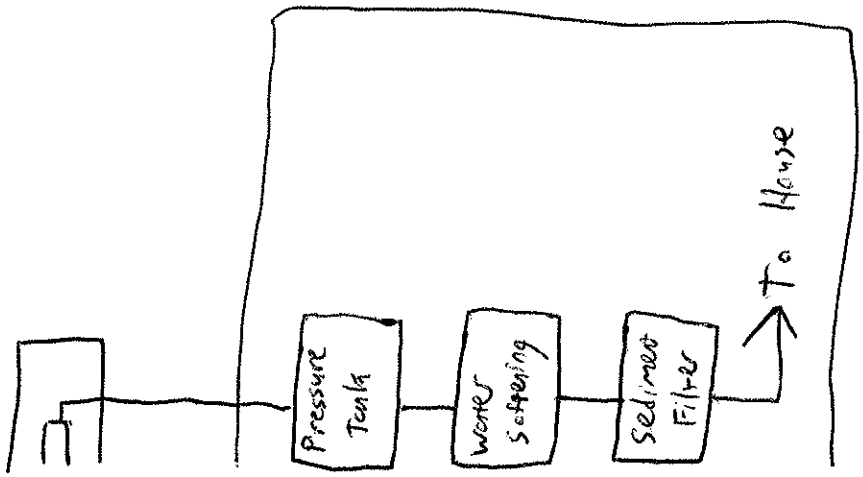
DTW: 28.75

DTB: 38.55

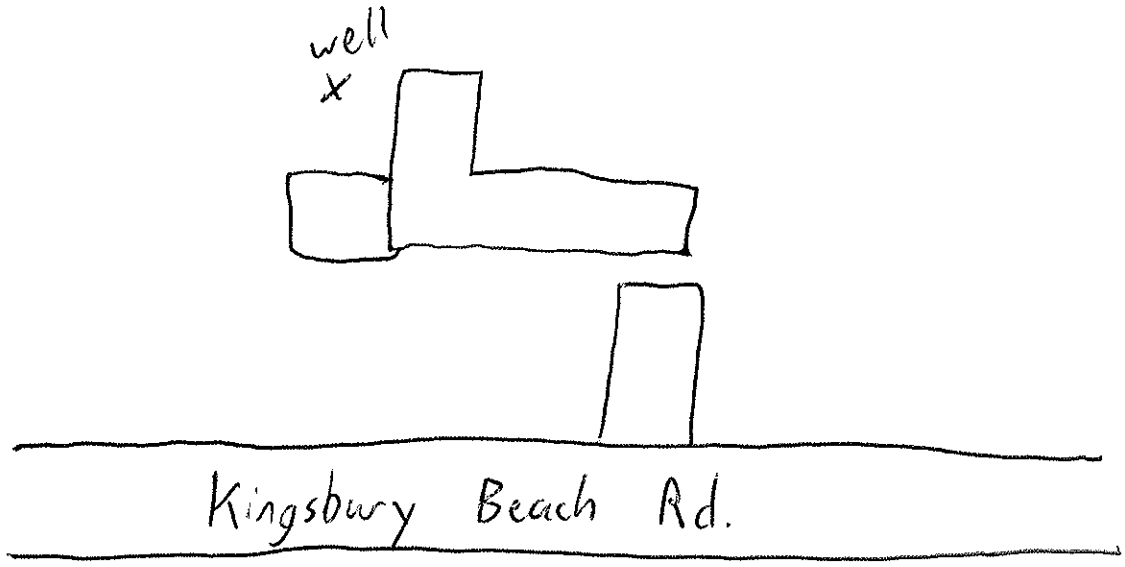
Eastham Landfill
Private Well Sampling Log

Propery Address: 100 Kingsbury Beach Rd.
Date: 10/5/16

Complete sketch of treatment system, if applicable:




Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



Eastham Landfill
Private Well Sampling Log

Date: 10/5/16
Sampler: DB
Weather Conditions: overcast, 0-5 mph wind
Temperature: 57°F

Location: 35 Salt Pond Rd.
Analysis Required: 1,4-Dioxane (8270 SIM)
Analytical Lab: Alpha
Sample Location: Spigot on right side of house. Collected @ 1050, DUP @ 1055
Describe water system including treatment: Unable to gain access to home or speak with home owner. Water system & treatment status unknown
Water meter reading: NA

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters
Purge Time: Start: 1040 Finish: 1050

Volume Purged: _____ gallons
Equipment Utilized: _____
Attach Equipment Calibration Log: _____

**Well Depth: Measured or Provided?**

Unable to locate well. Home owner not home at time of sample collection

Eastham Landfill
Private Well Sampling Log

Propery Address: 35 Salt Pond Rd.
Date: 10/5/16

Complete sketch of treatment system, if applicable:

Not available

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:

well location unknown

Eastham Landfill
Private Well Sampling Log

Date: 10/5/16
Sampler: DB
Weather Conditions: Clear, overcast, 0-5 mph wind
Temperature: 57.2 °F

Location: 230 Locust Rd.
Analysis Required: 1,4-Dioxane (8270 SIM)
Analytical Lab: Alpha
Sample Location: Kitchen sink. Collected @ 0930, DUP @ 0935
Describe water system including treatment: House has a Culligan water softening system to treat for low pH water - no salt unit
Water meter reading: NA

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters

Purge Time: Start: 0920 Finish: 0930

Volume Purged: _____ gallons
Equipment Utilized: _____
Attach Equipment Calibration Log: _____

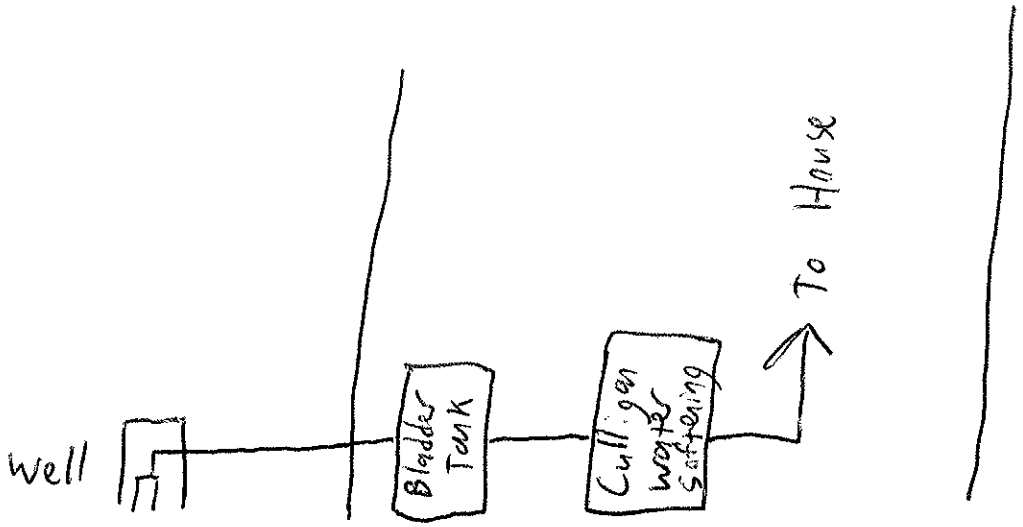
**Well Depth: Measured or Provided?**

DTW: 24.60
DTB: 35.40

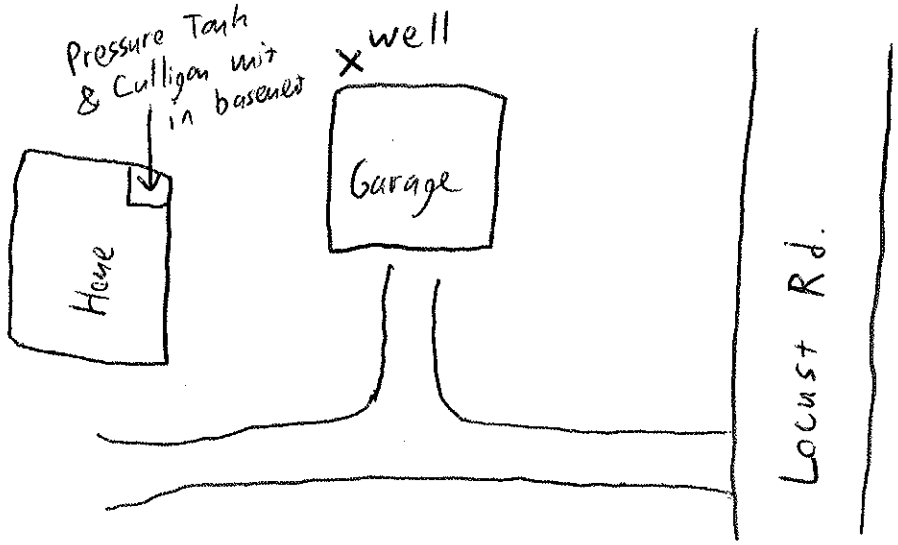
Eastham Landfill
Private Well Sampling Log

Propery Address: 230 Locust Rd.
Date: 10/5/16

Complete sketch of treatment system, if applicable:




Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



WOOD DUCK LN_010

Eastham Landfill
Private Well Sampling Log

Date: 10-26-16
Sampler: [redacted], BP, CN
Weather Conditions: cloudy
Temperature: 40's

Location: 10 Wood Duck Lane
Property Owner: Roger Patskanick
Property Contact:
Phone: 508-240-7619
Email:
Contact Log Attached: Yes: ____ No: ____

Analysis Required: 1,4-Dioxane (8270 SIM)
Analytical Lab: Alpha
Sample Location: spiget - side of house
Describe water system including treatment: treated for high acid
Water meter reading:

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters
Purge Time: Start: 830 Finish: 845

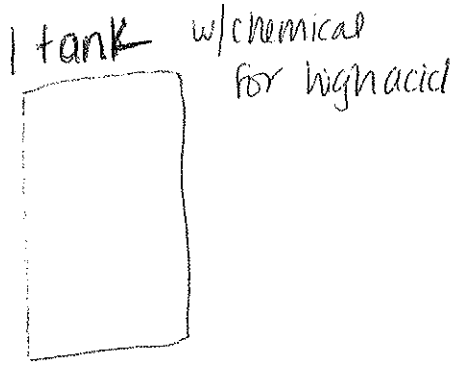
Volume Purged: 20 gallons
Equipment Utilized:
Attach Equipment Calibration Log:

Eastham Landfill
Private Well Sampling Log

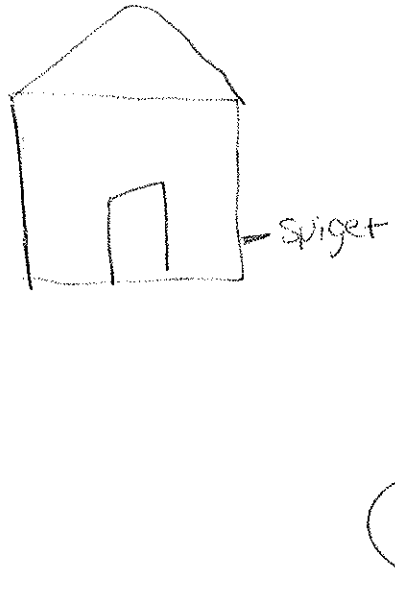
Well Depth: Measured or Provided? 73' (provided)

Summary of Sampling and Monitoring Activities: purged water for 20 gal sampled

Complete sketch of treatment system, if applicable:




Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



LOCUST RD_130

Eastham Landfill
Private Well Sampling Log

Date: 10-26-16
Sampler: [redacted], BP, CN
Weather Conditions:
Temperature:

Location: 130 Locust Road
Property Owner: Jeanne Leather
Property Contact:
Phone: 508-255-9581
Email:
Contact Log Attached: Yes: No:

Analysis Required: 1,4-Dioxane (8270 SIM)
Analytical Lab: Alpha
Sample Location: Spigot - side of house
Describe water system including treatment: no treatment
Water meter reading:

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters
Purge Time: Start: 0900 Finish: 0915

Volume Purged: 20 gallons
Equipment Utilized:
Attach Equipment Calibration Log:

Eastham Landfill
Private Well Sampling Log

Well Depth: Measured or Provided? 40'

Summary of Sampling and Monitoring Activities: purged well for 20 gal
sampled
owner was unsure of exact well location but knows
it is in front yard

water was running on arrival & departure
nozzle was very corroded/broken

Complete sketch of treatment system, if applicable:

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:

SCHOOLHOUSE R.D. – 200

Eastham Landfill
Private Well Sampling Log

Date: 10-26-16

Sampler: [redacted], BP CN

Weather Conditions:

Temperature:

Location: 200 Schoolhouse Rd

Property Owner:

Property Contact:

Phone:

Email:

Contact Log Attached: Yes: No:

Analysis Required: 1,4-Dioxane (8270 SIM)

Analytical Lab: Alpha

Sample Location: basement – before filter

Describe water system including treatment: pH treatment treatment system shut down

Water meter reading:

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters

Purge Time: Start: 9:30 Finish: 9:45

Volume Purged: 20 gallons

Equipment Utilized:

Attach Equipment Calibration Log:

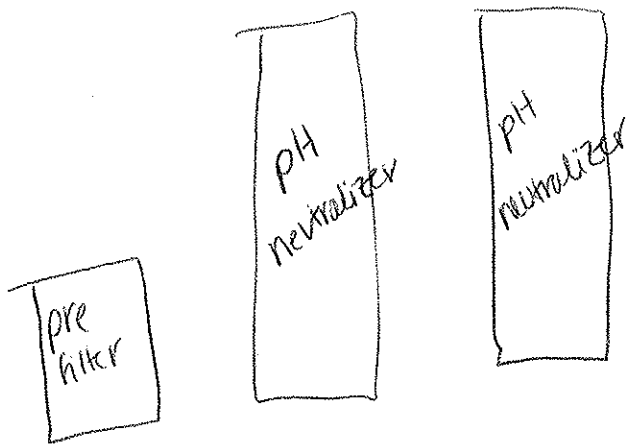
*Disregard

Eastham Landfill
Private Well Sampling Log

Well Depth: Measured or Provided? N/A

Summary of Sampling and Monitoring Activities: purged well 20g

Complete sketch of treatment system, if applicable:




Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:

STATE HWY_3580

Eastham Landfill
Private Well Sampling Log

Date: 10-26-16

Sampler: [redacted], BP, CN

Weather Conditions: Cloudy

Temperature: 40's

Location: 3580 State Highway

Property Owner: Nathan Nickerson III

Property Contact:

Phone: 508-240-8000

Email:

Contact Log Attached: Yes: No:

Analysis Required: 1,4-Dioxane (8270 SIM)

Analytical Lab: Alpha

Sample Location: outside spigot

Describe water system including treatment:

Water meter reading:

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters

Purge Time: Start: 950 Finish: 1000

Volume Purged: 20 gallons

Equipment Utilized:

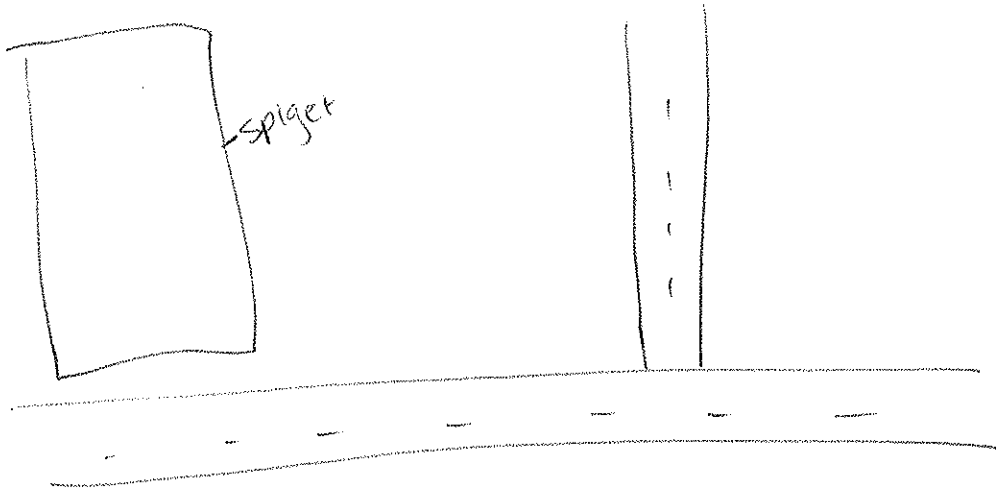
Attach Equipment Calibration Log:

Well Depth: Measured or Provided?

Summary of Sampling and Monitoring Activities: purged well for 20gal
sampled
no one on property to gauge/locate well

Complete sketch of treatment system, if applicable:

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



SPLIT RAIL RD_015

Eastham Landfill
Private Well Sampling Log

Date: 10-26-16
Sampler: [redacted], RP, CN
Weather Conditions: sunny
Temperature: 40's

Location: 15 Split Rail Road
Property Owner: Joanne Bruckman
Property Contact:
Phone: 201-779-6816
Email:
Contact Log Attached: Yes: No:

Analysis Required: 1,4-Dioxane (8270 SIM)
Analytical Lab: Alpha
Sample Location: spigot - side of house
Describe water system including treatment:
Water meter reading:

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters
Purge Time: Start: 1015 Finish: 1030

Volume Purged: 20 gallons
Equipment Utilized:
Attach Equipment Calibration Log:

Eastham Landfill
Private Well Sampling Log

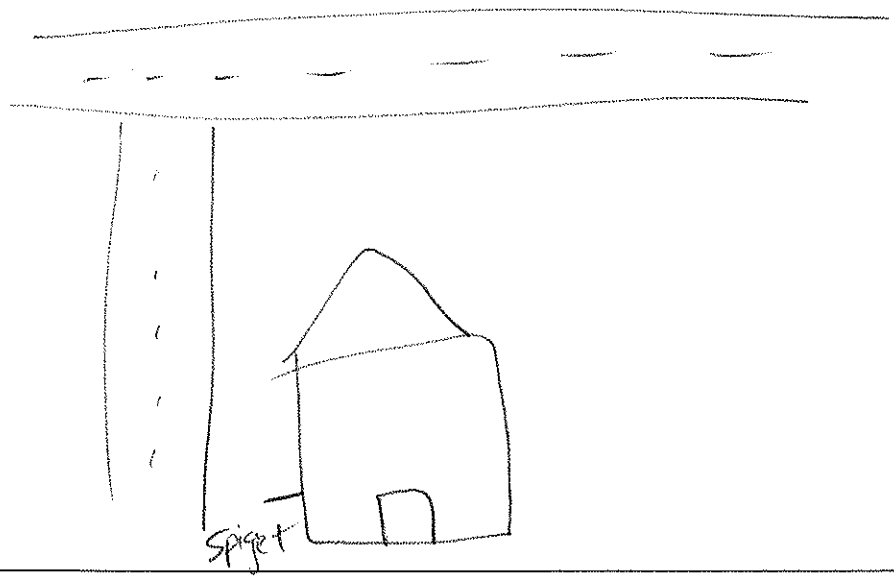
Well Depth: Measured or Provided?

Summary of Sampling and Monitoring Activities: purged well 20gal sampled

owner not onsite to measure well - could not open

Complete sketch of treatment system, if applicable:

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



ARMOUR DR_080

Eastham Landfill
Private Well Sampling Log

Date: 10-26-16
Sampler: EP, BP
Weather Conditions: Sunny
Temperature: 40's

Location: 80 Armour Drive
Property Owner: Gabrielle Reine
Property Contact:
Phone: 508-277-5403
Email:
Contact Log Attached: Yes: No:

Analysis Required: 1,4-Dioxane (8270 SIM)
Analytical Lab: Alpha
Sample Location: Kitchen sink
Describe water system including treatment: well Xtrol ? anti microbial
Water meter reading:

Purge Process purge well minimum 20 gallons, then wait for stabilized parameters
Purge Time: Start: 1045 Finish: 1100

Volume Purged: 20 gallons
Equipment Utilized:
Attach Equipment Calibration Log:

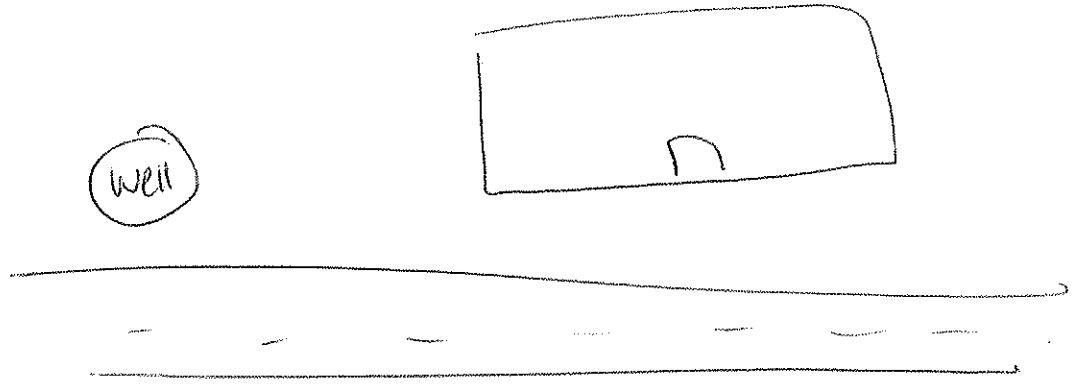
Eastham Landfill
Private Well Sampling Log

Well Depth: Measured or Provided? Could not get probe down well

Summary of Sampling and Monitoring Activities: purged water 20 gal
sampled kitchen sink (outside water turned off)
used spare key that was left in flower bucket
as directed by owner

Complete sketch of treatment system, if applicable:

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



LOCUST RD_180

Eastham Landfill
Private Well Sampling Log

Date: 10-26-16
Sampler: [redacted], BP, CN
Weather Conditions: SUNNY
Temperature: 40's

Location: 180 Locust Road
Property Owner: Patricia LaBranche
Property Contact:
Phone: 508-255-3532
Email:
Contact Log Attached: Yes: No:

Analysis Required: 1,4-Dioxane (8270 SIM)
Analytical Lab: Alpha
Sample Location: Outside Spigot
Describe water system including treatment:
Water meter reading:

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters
Purge Time: Start: 1100 Finish: 1115

Volume Purged: 20 gallons
Equipment Utilized:
Attach Equipment Calibration Log:

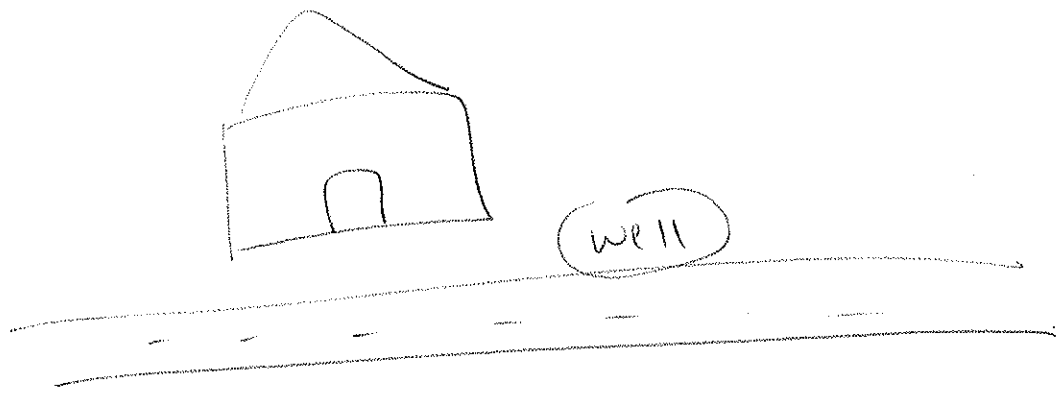
Eastham Landfill
Private Well Sampling Log

Well Depth: Measured or Provided? 19'

Summary of Sampling and Monitoring Activities: purged well for 20 gal sampled

Complete sketch of treatment system, if applicable:

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



ARMOUR DR_060

Eastham Landfill
Private Well Sampling Log

Date: 10-26-16

Sampler: [redacted], BP, CN

Weather Conditions: Sunny

Temperature: 40's

Location: 60 Armour Drive

Property Owner: Linda Terrabelli

Property Contact:

Phone: 617-773-1552 or 617-947-9789

Email:

Contact Log Attached: Yes: _____ No: _____

Analysis Required: 1,4-Dioxane (8270 SIM)

Analytical Lab: Alpha

Sample Location: Kitchen Sink

Describe water system including treatment: no treatment system

Water meter reading:

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters

Purge Time: Start: 1145 Finish: 1200

Volume Purged: 20 gallons

Equipment Utilized:

Attach Equipment Calibration Log:

Eastham Landfill
Private Well Sampling Log

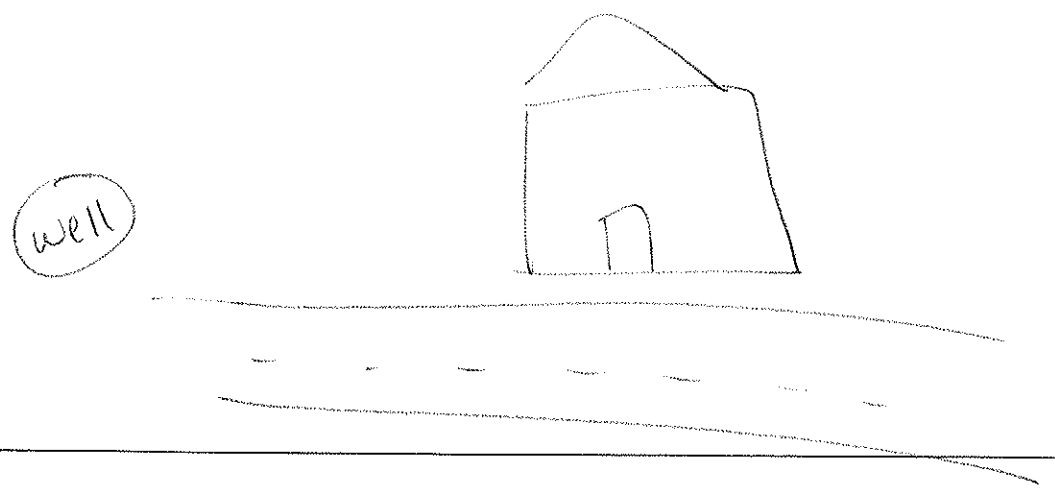
Well Depth: Measured or Provided?

Summary of Sampling and Monitoring Activities: purged well for 20 gal
sampled kitchen sink

could not open well, owner did not know depth

Complete sketch of treatment system, if applicable:

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



PRESERVATION WAY_004

Eastham Landfill
Private Well Sampling Log

Date: 10-26-16
Sampler: ~~EE~~, BP, CN
Weather Conditions: Sunny
Temperature: 40's

Location: 4 Preservation Way
Property Owner: Stephen Montanez
Property Contact:
Phone: 774-368-0850
Email:
Contact Log Attached: Yes: No:

Analysis Required: 1,4-Dioxane (8270 SIM)
Analytical Lab: Alpha
Sample Location: basement
Describe water system including treatment: well x no!
Water meter reading:

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters
Purge Time: Start: 1220 Finish: 1230

Volume Purged: 20 gallons
Equipment Utilized:
Attach Equipment Calibration Log:

Eastham Landfill
Private Well Sampling Log

Well Depth: Measured or (Provided)? NA

Summary of Sampling and Monitoring Activities:

Complete sketch of treatment system, if applicable:

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:

SPLIT RAIL RD_030

Eastham Landfill
Private Well Sampling Log

Date: 10-26-16

Sampler: [redacted], BP, CN

Weather Conditions: sunny

Temperature: 40's

Location: 30 Split Rail Rd.

Property Owner: Linda Libby

Property Contact:

Phone: 860-508-6235

Email:

Contact Log Attached: Yes: _____ No: _____

Analysis Required: 1,4-Dioxane (8270 SIM)

Analytical Lab: Alpha

Sample Location: basement before filter

Describe water system including treatment: aerating iron oxidizer

Water meter reading:

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters

Purge Time: Start: ~~1200~~ 1300 Finish: 1315

Volume Purged: 20 gallons

Equipment Utilized:

Attach Equipment Calibration Log:

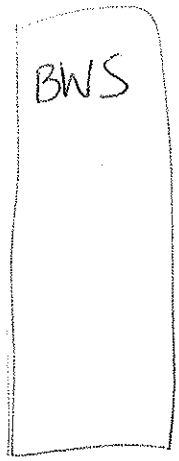
Eastham Landfill
Private Well Sampling Log

Well Depth: Measured or Provided? he thinks 40' (not certain)

Summary of Sampling and Monitoring Activities: purged well 20gal sampled

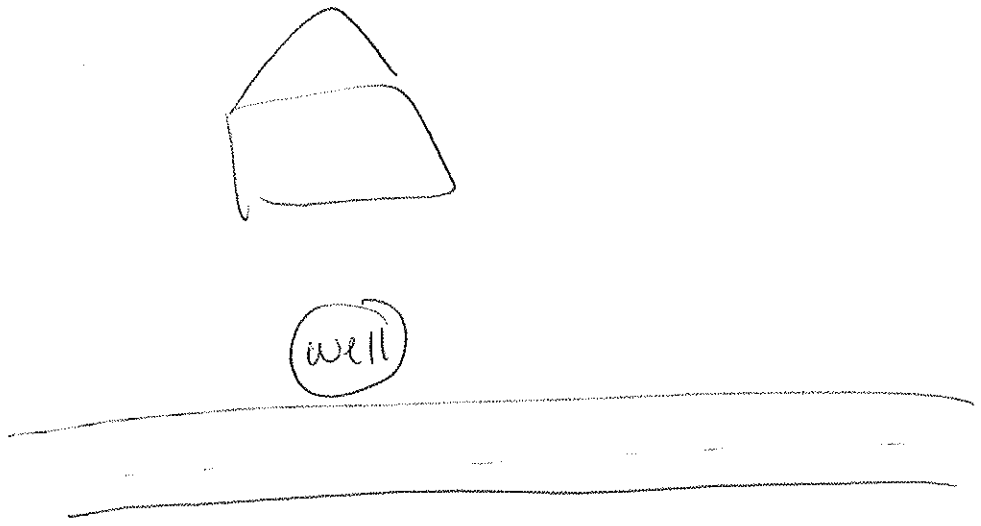
owner wasn't positive of well depth

Complete sketch of treatment system, if applicable:




aerating iron oxidizer

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



ALSTON AVE_085

Eastham Landfill
Private Well Sampling Log

Date: 10-26-16
Sampler: [redacted], BP, CN
Weather Conditions: sunny
Temperature: 40's

Location: 85 Alston Avenue
Property Owner: Linda Burt
Property Contact:
Phone: 508-255-1385
Email:
Contact Log Attached: Yes: No:

Analysis Required: 1,4-Dioxane (8270 SIM)
Analytical Lab: Alpha
Sample Location: Kitchen sink
Describe water system including treatment: no treatment system
Water meter reading:

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters
Purge Time: Start: 1350 Finish: 1400

Volume Purged: 20 gallons
Equipment Utilized:
Attach Equipment Calibration Log:

Eastham Landfill
Private Well Sampling Log

Well Depth: Measured or Provided? N/A

Summary of Sampling and Monitoring Activities:

Complete sketch of treatment system, if applicable:

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:

SPLIT RAIL RD – 025

Eastham Landfill
Private Well Sampling Log

Date: 10-26-16
Sampler: BP, CN
Weather Conditions: sunny
Temperature: 40's

Location: 25 Split Rail Road
Property Owner: Gail O'Keefe-Edson
Property Contact:
Phone: 508-255-7610
Email:
Contact Log Attached: Yes: No:

Analysis Required: 1,4-Dioxane (8270 SIM)
Analytical Lab: Alpha
Sample Location: Outside Spigot
Describe water system including treatment: pH neutralizer in basement
Water meter reading:

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters
Purge Time: Start: 1320 Finish: 1330

Volume Purged: 20 gallons
Equipment Utilized:
Attach Equipment Calibration Log:

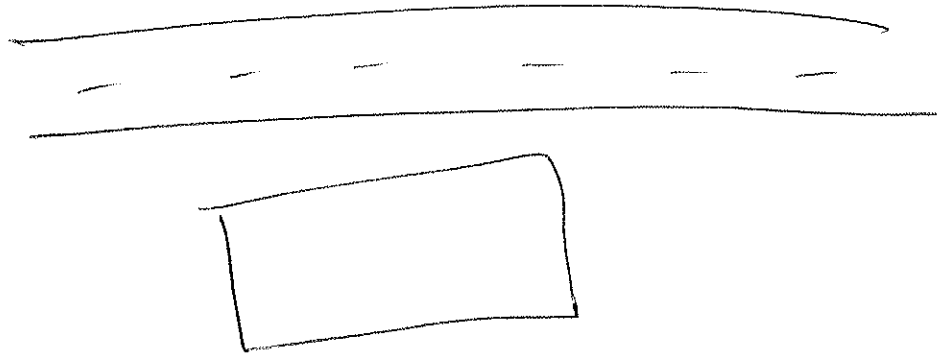
Eastham Landfill
Private Well Sampling Log

Well Depth: Measured or Provided? 13.5

Summary of Sampling and Monitoring Activities: purged well 20 gal
sampled
gauged well

Complete sketch of treatment system, if applicable:

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:



SPLIT RAIL RD_020

Eastham Landfill
Private Well Sampling Log

Date: 10-26-16

Sampler: [redacted], BP, CN

Weather Conditions: Sunny

Temperature: 40's

Location: 20 Split Rail Road

Property Owner: Mary Rappaport

Property Contact:

Phone:

Email:

Contact Log Attached: Yes: No:

Analysis Required: 1,4-Dioxane (8270 SIM)

Analytical Lab: Alpha

Sample Location: outside spigot

Describe water system including treatment: no treatment

Water meter reading:

Purge Process - purge well minimum 20 gallons, then wait for stabilized parameters

Purge Time: Start: 1340 Finish: 1345

Volume Purged: 20 gallons

Equipment Utilized:

Attach Equipment Calibration Log:

Eastham Landfill
Private Well Sampling Log

Well Depth: Measured or Provided? Couldn't get probe down

Summary of Sampling and Monitoring Activities: purged well 20 gal sampled

owner dad, wasn't sure of well depth

Complete sketch of treatment system, if applicable:

Complete sketch below of property including location of house and well. Also include diagram of treatment system, if applicable:

**WATER SAMPLING LOG: EASTHAM LANDFILL**

WELL NUMBER: MW 2S DATE: 11/29/16
WEATHER: cloudy 45 TIME: 945

**EVACUATION DATA**

DESCRIPTION OF MEASURING POINT: Top of PVC
DEPTH TO BOTTOM OF WELL: 37.12 DIAMETER OF CASING: 2”
DEPTH TO WATER IN WELL: 22.34 MATERIAL OF WELL: PVC
FEET OF WATER IN WELL: 14.78 GALLONS PER FOOT: 0.16
GALLONS OF WATER IN WELL: 2.36 AMOUNT TO PURGE: 15

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

**SAMPLING DATA/FIELD PARAMETERS**

COLOR: clear ODOR: APPEARANCE:
PH: in lab TEMP: 11.96 COND: 279 DO: 3.51
OTHER:

SAMPLING METHOD AND MATERIAL: dedicated bailer/dedicated waterra

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

## WATER SAMPLING LOG: EASTHAM LANDFILL

WELL NUMBER: MW 4S DATE: 11/29/16
WEATHER: cloudy 45 TIME: 1130

## EVACUATION DATA

DESCRIPTION OF MEASURING POINT: Top of PVC
DEPTH TO BOTTOM OF WELL: 61.36 DIAMETER OF CASING: 2”
DEPTH TO WATER IN WELL: 49.28 MATERIAL OF WELL: PVC
FEET OF WATER IN WELL: 12.08 GALLONS PER FOOT: 0.16
GALLONS OF WATER IN WELL: 1.93 AMOUNT TO PURGE: 15

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

## SAMPLING DATA/FIELD PARAMETERS

COLOR: clear ODOR: APPEARANCE:
PH: in lab TEMP: 12.84 COND: 352 DO: 1.65
OTHER:

SAMPLING METHOD AND MATERIAL: dedicated bailer/dedicated waterra

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

**WATER SAMPLING LOG: EASTHAM LANDFILL**

WELL NUMBER: MW 3I DATE: 11/29/16
WEATHER: cloudy 45 TIME: 1030

**EVACUATION DATA**

DESCRIPTION OF MEASURING POINT: Top of PVC
DEPTH TO BOTTOM OF WELL: 52.37 DIAMETER OF CASING: 2”
DEPTH TO WATER IN WELL: 21.47 MATERIAL OF WELL: PVC
FEET OF WATER IN WELL: 30.90 GALLONS PER FOOT: 0.16
GALLONS OF WATER IN WELL: 4.94 AMOUNT TO PURGE: 30

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

**SAMPLING DATA/FIELD PARAMETERS**

COLOR: clear ODOR: very slight leachate APPEARANCE:
PH: in lab TEMP: 12.48 COND: 326 DO: 1.33
OTHER:

SAMPLING METHOD AND MATERIAL: dedicated bailer/dedicated waterra

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

**WATER SAMPLING LOG: EASTHAM LANDFILL**

WELL NUMBER: MW 3D DATE: 11/29/16
WEATHER: cloudy 45 TIME: 1030

**EVACUATION DATA**

DESCRIPTION OF MEASURING POINT: Top of Casing
DEPTH TO BOTTOM OF WELL: 73.44 DIAMETER OF CASING: 2”
DEPTH TO WATER IN WELL: 21.23 MATERIAL OF WELL: PVC
FEET OF WATER IN WELL: 52.21 GALLONS PER FOOT: 0.16
GALLONS OF WATER IN WELL: 8.35 AMOUNT TO PURGE: 55

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

**SAMPLING DATA/FIELD PARAMETERS**

COLOR: clear ODOR: leachate odor APPEARANCE: some suds
PH: in lab TEMP: 12.55 COND: 1064 DO: 1.63
OTHER:

SAMPLING METHOD AND MATERIAL: dedicated bailer/dedicated waterra

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

## WATER SAMPLING LOG: EASTHAM LANDFILL

WELL NUMBER: MW 5S DATE: 11/29/16
WEATHER: cloudy 45 TIME: 1200

## EVACUATION DATA

DESCRIPTION OF MEASURING POINT: Top of PVC
DEPTH TO BOTTOM OF WELL: 73.43 DIAMETER OF CASING: 2”
DEPTH TO WATER IN WELL: 46.87 MATERIAL OF WELL: PVC
FEET OF WATER IN WELL: 26.56 GALLONS PER FOOT: 0.16
GALLONS OF WATER IN WELL: 4.25 AMOUNT TO PURGE: 25

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

## SAMPLING DATA/FIELD PARAMETERS

COLOR: clear ODOR: APPEARANCE:
PH: in lab TEMP: 13.07 COND: 405 DO: 1.24
OTHER:

SAMPLING METHOD AND MATERIAL: dedicated bailer/dedicated waterra

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

## WATER SAMPLING LOG: EASTHAM LANDFILL

WELL NUMBER: MW 8 DATE: 11/29/16
WEATHER: cloudy 45 TIME: 1315

## EVACUATION DATA

DESCRIPTION OF MEASURING POINT: Top of PVC
DEPTH TO BOTTOM OF WELL: 127.16 DIAMETER OF CASING: 2”
DEPTH TO WATER IN WELL: 32.67 MATERIAL OF WELL: PVC
FEET OF WATER IN WELL: 94.49 GALLONS PER FOOT: 0.16
GALLONS OF WATER IN WELL: 15.12 AMOUNT TO PURGE: 95

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

## SAMPLING DATA/FIELD PARAMETERS

COLOR: clear ODOR: APPEARANCE:
PH: in lab TEMP: 12.05 COND: 308 DO: 1.26
OTHER:

SAMPLING METHOD AND MATERIAL: dedicated bailer/dedicated waterra

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

## WATER SAMPLING LOG: EASTHAM LANDFILL

WELL NUMBER: DPW Well DATE: 11/29/16
WEATHER: cloudy 45 TIME: 1245

## EVACUATION DATA

DESCRIPTION OF MEASURING POINT: Top of Casing
DEPTH TO BOTTOM OF WELL: DIAMETER OF CASING: 2”
DEPTH TO WATER IN WELL: n/a MATERIAL OF WELL: PVC
FEET OF WATER IN WELL: GALLONS PER FOOT: 0.16
GALLONS OF WATER IN WELL: AMOUNT TO PURGE:

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

## SAMPLING DATA/FIELD PARAMETERS

COLOR: clear ODOR: APPEARANCE:
PH: in lab TEMP: 13.41 COND: 648 DO: 6.71
OTHER:

SAMPLING METHOD AND MATERIAL: dedicated bailer/dedicated waterra

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 | L1638614 | 11/29/2016 | GW | Yes | Yes | No | Yes | No | Usable - CAM Compliant |

| Sample ID | Date | Lab ID | Matrix | Analysis |
|---|---|---|---|---|
| MW-3I | 11/29/2016 | L1638614-01 | GW | 8260, 8270, metals, nitrate, alkalinity, chloride, sulfate, TDS, COD, cyanide, pH |
| MW-3D | 11/29/2016 | L1638614-02 | GW | 8260, 8270, metals, nitrate, alkalinity, chloride, sulfate, TDS, COD, cyanide, pH |
| MW-2S | 11/29/2016 | L1638614-03 | GW | 8260, 8270, metals, nitrate, alkalinity, chloride, sulfate, TDS, COD, cyanide, pH |
| MW-4S | 11/29/2016 | L1638614-04 | GW | 8260, 8270, metals, nitrate, alkalinity, chloride, sulfate, TDS, COD, cyanide, pH |
| MW-5S | 11/29/2016 | L1638614-05 | GW | 8260, 8270, metals, nitrate, alkalinity, chloride, sulfate, TDS, COD, cyanide, pH |
| MW-8 | 11/29/2016 | L1638614-06 | GW | 8260, 8270, pH |
| DPW WELL | 11/29/2016 | L1638614-07 | GW | 8260, 8270, pH |
| TRIP BLANK | 11/29/2016 | L1638614-08 | GW | 8270 |

The initial calibration, associated with L1638614-07, did not meet the method required minimum response factor on the lowest calibration standard for 2-butanone (0.0815), 4-methyl-2-pentanone (0.0925), and 1,4-dioxane (0.0021), as well as the average response factor for 2-butanone, 4-methyl-2-pentanone, and 1,4-dioxane.

The initial calibration, associated with L1638614-01 through -06, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-dioxane (0.001), as well as the average response factor for -2-butanone and 1,4-dioxane.

The continuing calibration standards, associated with L1638614-01 through -07, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. Copies of the continuing calibration standards are included as an addendum to this report.

All QAQC data, including surrogate, method blank, laboratory control sample (LCS), LCS duplicate, lab duplicate and matrix spike results were reviewed. This report was deemed usable by Angela Boyd on 12/14/16.

# ANALYTICAL REPORT

| | |
|---|---|
| Lab Number: | L1638614 |
| 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: | 2016-055 |
| Report Date: | 12/06/16 |



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.

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

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055

**Lab Number:** L1638614
**Report Date:** 12/06/16

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|---|---|---|---|---|---|
| L1638614-01 | MW-3I | WATER | EASTHAM, MA | 11/29/16 10:30 | 11/29/16 |
| L1638614-02 | MW-3D | WATER | EASTHAM, MA | 11/29/16 10:30 | 11/29/16 |
| L1638614-03 | MW-2S | WATER | EASTHAM, MA | 11/29/16 09:45 | 11/29/16 |
| L1638614-04 | MW-4S | WATER | EASTHAM, MA | 11/29/16 11:30 | 11/29/16 |
| L1638614-05 | MW-5S | WATER | EASTHAM, MA | 11/29/16 12:00 | 11/29/16 |
| L1638614-06 | MW-8 | WATER | EASTHAM, MA | 11/29/16 13:15 | 11/29/16 |
| L1638614-07 | DWP WELL | WATER | EASTHAM, MA | 11/29/16 12:45 | 11/29/16 |
| L1638614-08 | TRIP BLANK | WATER | EASTHAM, MA | 11/29/16 00:00 | 11/29/16 |

**Project Name:** EASTHAM LANDFILL **Lab Number:** L1638614

**Project Number:** 2016-055 **Report Date:** 12/06/16

## 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.**

| **An affirmative response to questions A through F is required for "Presumptive Certainty" status** | | |
|---|---|---|
| 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 |

| **A response to questions G, H and I is required for "Presumptive Certainty" status** | | |
|---|---|---|
| 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 |

**For any questions answered "No", please refer to the case narrative section on the following page(s).**

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

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

## 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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. 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 **Lab Number:** L1638614
**Project Number:** 2016-055 **Report Date:** 12/06/16

**Case Narrative (continued)**

MCP Related Narratives

Volatile Organics

In reference to question H:

The initial calibration, associated with L1638614-07, did not meet the method required minimum response factor on the lowest calibration standard for 2-butanone (0.0815), 4-methyl-2-pentanone (0.0925), and 1,4-dioxane (0.0021), as well as the average response factor for 2-butanone, 4-methyl-2-pentanone, and 1,4-dioxane.

The initial calibration, associated with L1638614-01 through -06, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-dioxane (0.001), as well as the average response factor for -2-butanone and 1,4-dioxane.

The continuing calibration standards, associated with L1638614-01 through -07, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. Copies of the continuing calibration standards are 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: Cristin Walker

Title: Technical Director/Representative Date: 12/06/16

# ORGANICS

# VOLATILES

**Project Name:** EASTHAM LANDFILL
**Lab Number:** L1638614
**Project Number:** 2016-055
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-01
Client ID: MW-3I
Sample Location: EASTHAM, MA
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 12/01/16 17:39
Analyst: PK

Date Collected: 11/29/16 10:30
Date Received: 11/29/16
Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.0 | -- | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Chloroform | ND | | ug/l | 1.0 | -- | 1 |
| Carbon tetrachloride | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | -- | 1 |
| Dibromochloromethane | ND | | ug/l | 1.0 | -- | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Tetrachloroethene | ND | | ug/l | 1.0 | -- | 1 |
| Chlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Bromodichloromethane | ND | | ug/l | 1.0 | -- | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | -- | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.0 | -- | 1 |
| Bromoform | ND | | ug/l | 2.0 | -- | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Benzene | ND | | ug/l | 0.50 | -- | 1 |
| Toluene | ND | | ug/l | 1.0 | -- | 1 |
| Ethylbenzene | ND | | ug/l | 1.0 | -- | 1 |
| Chloromethane | ND | | ug/l | 2.0 | -- | 1 |
| Bromomethane | ND | | ug/l | 2.0 | -- | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | -- | 1 |
| Chloroethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| Trichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |

**Project Name:** EASTHAM LANDFILL **Lab Number:** L1638614

**Project Number:** 2016-055 **Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-01 Date Collected: 11/29/16 10:30

Client ID: MW-3I Date Received: 11/29/16

Sample Location: EASTHAM, MA Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.0 | -- | 1 |
| p/m-Xylene | ND | | ug/l | 2.0 | -- | 1 |
| o-Xylene | ND | | ug/l | 1.0 | -- | 1 |
| Xylene (Total) | ND | | ug/l | 1.0 | -- | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichloroethene (total) | ND | | ug/l | 1.0 | -- | 1 |
| Dibromomethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| Styrene | ND | | ug/l | 1.0 | -- | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 2.0 | -- | 1 |
| Acetone | ND | | ug/l | 5.0 | -- | 1 |
| Carbon disulfide | ND | | ug/l | 2.0 | -- | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | -- | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | -- | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | -- | 1 |
| Bromochloromethane | ND | | ug/l | 2.0 | -- | 1 |
| Tetrahydrofuran | ND | | ug/l | 2.0 | -- | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Bromobenzene | ND | | ug/l | 2.0 | -- | 1 |
| n-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.0 | -- | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.0 | -- | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.60 | -- | 1 |
| Isopropylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.0 | -- | 1 |
| Naphthalene | ND | | ug/l | 2.0 | -- | 1 |
| n-Propylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.0 | -- | 1 |

**Project Name:** EASTHAM LANDFILL **Lab Number:** L1638614

**Project Number:** 2016-055 **Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-01 Date Collected: 11/29/16 10:30

Client ID: MW-3I Date Received: 11/29/16

Sample Location: EASTHAM, MA Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| Ethyl ether | ND | | ug/l | 2.0 | -- | 1 |
| Isopropyl Ether | ND | | ug/l | 2.0 | -- | 1 |
| Ethyl-Tert-Butyl-Ether | ND | | ug/l | 2.0 | -- | 1 |
| Tertiary-Amyl Methyl Ether | ND | | ug/l | 2.0 | -- | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | | 70-130 |
| Toluene-d8 | 100 | | 70-130 |
| 4-Bromofluorobenzene | 97 | | 70-130 |
| Dibromofluoromethane | 103 | | 70-130 |

**Project Name:** EASTHAM LANDFILL
**Lab Number:** L1638614
**Project Number:** 2016-055
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-02
Client ID: MW-3D
Sample Location: EASTHAM, MA
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 12/01/16 18:04
Analyst: PK

Date Collected: 11/29/16 10:30
Date Received: 11/29/16
Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.0 | -- | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Chloroform | ND | | ug/l | 1.0 | -- | 1 |
| Carbon tetrachloride | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | -- | 1 |
| Dibromochloromethane | ND | | ug/l | 1.0 | -- | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Tetrachloroethene | ND | | ug/l | 1.0 | -- | 1 |
| Chlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Bromodichloromethane | ND | | ug/l | 1.0 | -- | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | -- | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.0 | -- | 1 |
| Bromoform | ND | | ug/l | 2.0 | -- | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Benzene | 0.60 | | ug/l | 0.50 | -- | 1 |
| Toluene | ND | | ug/l | 1.0 | -- | 1 |
| Ethylbenzene | ND | | ug/l | 1.0 | -- | 1 |
| Chloromethane | ND | | ug/l | 2.0 | -- | 1 |
| Bromomethane | ND | | ug/l | 2.0 | -- | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | -- | 1 |
| Chloroethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| Trichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |

**Project Name:** EASTHAM LANDFILL **Lab Number:** L1638614

**Project Number:** 2016-055 **Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-02 Date Collected: 11/29/16 10:30

Client ID: MW-3D Date Received: 11/29/16

Sample Location: EASTHAM, MA Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.0 | -- | 1 |
| p/m-Xylene | ND | | ug/l | 2.0 | -- | 1 |
| o-Xylene | ND | | ug/l | 1.0 | -- | 1 |
| Xylene (Total) | ND | | ug/l | 1.0 | -- | 1 |
| cis-1,2-Dichloroethene | 1.2 | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichloroethene (total) | 1.2 | | ug/l | 1.0 | -- | 1 |
| Dibromomethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| Styrene | ND | | ug/l | 1.0 | -- | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 2.0 | -- | 1 |
| Acetone | ND | | ug/l | 5.0 | -- | 1 |
| Carbon disulfide | ND | | ug/l | 2.0 | -- | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | -- | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | -- | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | -- | 1 |
| Bromochloromethane | ND | | ug/l | 2.0 | -- | 1 |
| Tetrahydrofuran | ND | | ug/l | 2.0 | -- | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Bromobenzene | ND | | ug/l | 2.0 | -- | 1 |
| n-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.0 | -- | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.0 | -- | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.60 | -- | 1 |
| Isopropylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.0 | -- | 1 |
| Naphthalene | ND | | ug/l | 2.0 | -- | 1 |
| n-Propylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.0 | -- | 1 |

**Project Name:** EASTHAM LANDFILL **Lab Number:** L1638614

**Project Number:** 2016-055 **Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-02 Date Collected: 11/29/16 10:30

Client ID: MW-3D Date Received: 11/29/16

Sample Location: EASTHAM, MA Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| Ethyl ether | 19 | | ug/l | 2.0 | -- | 1 |
| Isopropyl Ether | ND | | ug/l | 2.0 | -- | 1 |
| Ethyl-Tert-Butyl-Ether | ND | | ug/l | 2.0 | -- | 1 |
| Tertiary-Amyl Methyl Ether | ND | | ug/l | 2.0 | -- | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | | 70-130 |
| Toluene-d8 | 99 | | 70-130 |
| 4-Bromofluorobenzene | 97 | | 70-130 |
| Dibromofluoromethane | 106 | | 70-130 |

**Project Name:** EASTHAM LANDFILL
**Lab Number:** L1638614
**Project Number:** 2016-055
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-03
Client ID: MW-2S
Sample Location: EASTHAM, MA
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 12/01/16 18:29
Analyst: PK

Date Collected: 11/29/16 09:45
Date Received: 11/29/16
Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.0 | -- | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Chloroform | ND | | ug/l | 1.0 | -- | 1 |
| Carbon tetrachloride | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | -- | 1 |
| Dibromochloromethane | ND | | ug/l | 1.0 | -- | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Tetrachloroethene | ND | | ug/l | 1.0 | -- | 1 |
| Chlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Bromodichloromethane | ND | | ug/l | 1.0 | -- | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | -- | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.0 | -- | 1 |
| Bromoform | ND | | ug/l | 2.0 | -- | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Benzene | ND | | ug/l | 0.50 | -- | 1 |
| Toluene | ND | | ug/l | 1.0 | -- | 1 |
| Ethylbenzene | ND | | ug/l | 1.0 | -- | 1 |
| Chloromethane | ND | | ug/l | 2.0 | -- | 1 |
| Bromomethane | ND | | ug/l | 2.0 | -- | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | -- | 1 |
| Chloroethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| Trichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |

**Project Name:** EASTHAM LANDFILL **Lab Number:** L1638614

**Project Number:** 2016-055 **Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-03 Date Collected: 11/29/16 09:45

Client ID: MW-2S Date Received: 11/29/16

Sample Location: EASTHAM, MA Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.0 | -- | 1 |
| p/m-Xylene | ND | | ug/l | 2.0 | -- | 1 |
| o-Xylene | ND | | ug/l | 1.0 | -- | 1 |
| Xylene (Total) | ND | | ug/l | 1.0 | -- | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichloroethene (total) | ND | | ug/l | 1.0 | -- | 1 |
| Dibromomethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| Styrene | ND | | ug/l | 1.0 | -- | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 2.0 | -- | 1 |
| Acetone | ND | | ug/l | 5.0 | -- | 1 |
| Carbon disulfide | ND | | ug/l | 2.0 | -- | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | -- | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | -- | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | -- | 1 |
| Bromochloromethane | ND | | ug/l | 2.0 | -- | 1 |
| Tetrahydrofuran | ND | | ug/l | 2.0 | -- | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Bromobenzene | ND | | ug/l | 2.0 | -- | 1 |
| n-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.0 | -- | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.0 | -- | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.60 | -- | 1 |
| Isopropylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.0 | -- | 1 |
| Naphthalene | ND | | ug/l | 2.0 | -- | 1 |
| n-Propylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.0 | -- | 1 |

**Project Name:** EASTHAM LANDFILL **Lab Number:** L1638614

**Project Number:** 2016-055 **Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-03 Date Collected: 11/29/16 09:45

Client ID: MW-2S Date Received: 11/29/16

Sample Location: EASTHAM, MA Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| Ethyl ether | ND | | ug/l | 2.0 | -- | 1 |
| Isopropyl Ether | ND | | ug/l | 2.0 | -- | 1 |
| Ethyl-Tert-Butyl-Ether | ND | | ug/l | 2.0 | -- | 1 |
| Tertiary-Amyl Methyl Ether | ND | | ug/l | 2.0 | -- | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | | 70-130 |
| Toluene-d8 | 100 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 70-130 |
| Dibromofluoromethane | 105 | | 70-130 |

**Project Name:** EASTHAM LANDFILL
**Lab Number:** L1638614
**Project Number:** 2016-055
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-04
Client ID: MW-4S
Sample Location: EASTHAM, MA
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 12/01/16 18:54
Analyst: PK

Date Collected: 11/29/16 11:30
Date Received: 11/29/16
Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.0 | -- | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Chloroform | ND | | ug/l | 1.0 | -- | 1 |
| Carbon tetrachloride | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | -- | 1 |
| Dibromochloromethane | ND | | ug/l | 1.0 | -- | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Tetrachloroethene | ND | | ug/l | 1.0 | -- | 1 |
| Chlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Bromodichloromethane | ND | | ug/l | 1.0 | -- | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | -- | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.0 | -- | 1 |
| Bromoform | ND | | ug/l | 2.0 | -- | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Benzene | ND | | ug/l | 0.50 | -- | 1 |
| Toluene | ND | | ug/l | 1.0 | -- | 1 |
| Ethylbenzene | ND | | ug/l | 1.0 | -- | 1 |
| Chloromethane | ND | | ug/l | 2.0 | -- | 1 |
| Bromomethane | ND | | ug/l | 2.0 | -- | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | -- | 1 |
| Chloroethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| Trichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |

**Project Name:** EASTHAM LANDFILL **Lab Number:** L1638614

**Project Number:** 2016-055 **Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-04 Date Collected: 11/29/16 11:30

Client ID: MW-4S Date Received: 11/29/16

Sample Location: EASTHAM, MA Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.0 | -- | 1 |
| p/m-Xylene | ND | | ug/l | 2.0 | -- | 1 |
| o-Xylene | ND | | ug/l | 1.0 | -- | 1 |
| Xylene (Total) | ND | | ug/l | 1.0 | -- | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichloroethene (total) | ND | | ug/l | 1.0 | -- | 1 |
| Dibromomethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| Styrene | ND | | ug/l | 1.0 | -- | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 2.0 | -- | 1 |
| Acetone | ND | | ug/l | 5.0 | -- | 1 |
| Carbon disulfide | ND | | ug/l | 2.0 | -- | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | -- | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | -- | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | -- | 1 |
| Bromochloromethane | ND | | ug/l | 2.0 | -- | 1 |
| Tetrahydrofuran | ND | | ug/l | 2.0 | -- | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Bromobenzene | ND | | ug/l | 2.0 | -- | 1 |
| n-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.0 | -- | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.0 | -- | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.60 | -- | 1 |
| Isopropylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.0 | -- | 1 |
| Naphthalene | ND | | ug/l | 2.0 | -- | 1 |
| n-Propylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.0 | -- | 1 |

**Project Name:** EASTHAM LANDFILL **Lab Number:** L1638614

**Project Number:** 2016-055 **Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-04 Date Collected: 11/29/16 11:30

Client ID: MW-4S Date Received: 11/29/16

Sample Location: EASTHAM, MA Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| Ethyl ether | 3.4 | | ug/l | 2.0 | -- | 1 |
| Isopropyl Ether | ND | | ug/l | 2.0 | -- | 1 |
| Ethyl-Tert-Butyl-Ether | ND | | ug/l | 2.0 | -- | 1 |
| Tertiary-Amyl Methyl Ether | ND | | ug/l | 2.0 | -- | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | | 70-130 |
| Toluene-d8 | 101 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 70-130 |
| Dibromofluoromethane | 106 | | 70-130 |

**Project Name:** EASTHAM LANDFILL
**Lab Number:** L1638614
**Project Number:** 2016-055
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-05
Client ID: MW-5S
Sample Location: EASTHAM, MA
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 12/02/16 15:21
Analyst: BD

Date Collected: 11/29/16 12:00
Date Received: 11/29/16
Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.0 | -- | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Chloroform | ND | | ug/l | 1.0 | -- | 1 |
| Carbon tetrachloride | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | -- | 1 |
| Dibromochloromethane | ND | | ug/l | 1.0 | -- | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Tetrachloroethene | ND | | ug/l | 1.0 | -- | 1 |
| Chlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Bromodichloromethane | ND | | ug/l | 1.0 | -- | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | -- | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.0 | -- | 1 |
| Bromoform | ND | | ug/l | 2.0 | -- | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Benzene | ND | | ug/l | 0.50 | -- | 1 |
| Toluene | ND | | ug/l | 1.0 | -- | 1 |
| Ethylbenzene | ND | | ug/l | 1.0 | -- | 1 |
| Chloromethane | ND | | ug/l | 2.0 | -- | 1 |
| Bromomethane | ND | | ug/l | 2.0 | -- | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | -- | 1 |
| Chloroethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| Trichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |

**Project Name:** EASTHAM LANDFILL **Lab Number:** L1638614

**Project Number:** 2016-055 **Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-05 Date Collected: 11/29/16 12:00

Client ID: MW-5S Date Received: 11/29/16

Sample Location: EASTHAM, MA Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.0 | -- | 1 |
| p/m-Xylene | ND | | ug/l | 2.0 | -- | 1 |
| o-Xylene | ND | | ug/l | 1.0 | -- | 1 |
| Xylene (Total) | ND | | ug/l | 1.0 | -- | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichloroethene (total) | ND | | ug/l | 1.0 | -- | 1 |
| Dibromomethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| Styrene | ND | | ug/l | 1.0 | -- | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 2.0 | -- | 1 |
| Acetone | ND | | ug/l | 5.0 | -- | 1 |
| Carbon disulfide | ND | | ug/l | 2.0 | -- | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | -- | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | -- | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | -- | 1 |
| Bromochloromethane | ND | | ug/l | 2.0 | -- | 1 |
| Tetrahydrofuran | ND | | ug/l | 2.0 | -- | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Bromobenzene | ND | | ug/l | 2.0 | -- | 1 |
| n-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.0 | -- | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.0 | -- | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.60 | -- | 1 |
| Isopropylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.0 | -- | 1 |
| Naphthalene | ND | | ug/l | 2.0 | -- | 1 |
| n-Propylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.0 | -- | 1 |

**Project Name:** EASTHAM LANDFILL **Lab Number:** L1638614

**Project Number:** 2016-055 **Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-05 Date Collected: 11/29/16 12:00

Client ID: MW-5S Date Received: 11/29/16

Sample Location: EASTHAM, MA Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| Ethyl ether | 2.3 | | ug/l | 2.0 | -- | 1 |
| Isopropyl Ether | ND | | ug/l | 2.0 | -- | 1 |
| Ethyl-Tert-Butyl-Ether | ND | | ug/l | 2.0 | -- | 1 |
| Tertiary-Amyl Methyl Ether | ND | | ug/l | 2.0 | -- | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | | 70-130 |
| Toluene-d8 | 102 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 70-130 |
| Dibromofluoromethane | 106 | | 70-130 |

**Project Name:** EASTHAM LANDFILL
**Lab Number:** L1638614
**Project Number:** 2016-055
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-06
Client ID: MW-8
Sample Location: EASTHAM, MA
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 12/02/16 15:46
Analyst: BD

Date Collected: 11/29/16 13:15
Date Received: 11/29/16
Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.0 | -- | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Chloroform | ND | | ug/l | 1.0 | -- | 1 |
| Carbon tetrachloride | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | -- | 1 |
| Dibromochloromethane | ND | | ug/l | 1.0 | -- | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Tetrachloroethene | ND | | ug/l | 1.0 | -- | 1 |
| Chlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Bromodichloromethane | ND | | ug/l | 1.0 | -- | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | -- | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.0 | -- | 1 |
| Bromoform | ND | | ug/l | 2.0 | -- | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Benzene | ND | | ug/l | 0.50 | -- | 1 |
| Toluene | ND | | ug/l | 1.0 | -- | 1 |
| Ethylbenzene | ND | | ug/l | 1.0 | -- | 1 |
| Chloromethane | ND | | ug/l | 2.0 | -- | 1 |
| Bromomethane | ND | | ug/l | 2.0 | -- | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | -- | 1 |
| Chloroethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| Trichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |

**Project Name:** EASTHAM LANDFILL **Lab Number:** L1638614

**Project Number:** 2016-055 **Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-06 Date Collected: 11/29/16 13:15

Client ID: MW-8 Date Received: 11/29/16

Sample Location: EASTHAM, MA Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.0 | -- | 1 |
| p/m-Xylene | ND | | ug/l | 2.0 | -- | 1 |
| o-Xylene | ND | | ug/l | 1.0 | -- | 1 |
| Xylene (Total) | ND | | ug/l | 1.0 | -- | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichloroethene (total) | ND | | ug/l | 1.0 | -- | 1 |
| Dibromomethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| Styrene | ND | | ug/l | 1.0 | -- | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 2.0 | -- | 1 |
| Acetone | ND | | ug/l | 5.0 | -- | 1 |
| Carbon disulfide | ND | | ug/l | 2.0 | -- | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | -- | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | -- | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | -- | 1 |
| Bromochloromethane | ND | | ug/l | 2.0 | -- | 1 |
| Tetrahydrofuran | ND | | ug/l | 2.0 | -- | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Bromobenzene | ND | | ug/l | 2.0 | -- | 1 |
| n-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.0 | -- | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.0 | -- | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.60 | -- | 1 |
| Isopropylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.0 | -- | 1 |
| Naphthalene | ND | | ug/l | 2.0 | -- | 1 |
| n-Propylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.0 | -- | 1 |

**Project Name:** EASTHAM LANDFILL **Lab Number:** L1638614

**Project Number:** 2016-055 **Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-06 Date Collected: 11/29/16 13:15

Client ID: MW-8 Date Received: 11/29/16

Sample Location: EASTHAM, MA Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| Ethyl ether | ND | | ug/l | 2.0 | -- | 1 |
| Isopropyl Ether | ND | | ug/l | 2.0 | -- | 1 |
| Ethyl-Tert-Butyl-Ether | ND | | ug/l | 2.0 | -- | 1 |
| Tertiary-Amyl Methyl Ether | ND | | ug/l | 2.0 | -- | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | | 70-130 |
| Toluene-d8 | 100 | | 70-130 |
| 4-Bromofluorobenzene | 99 | | 70-130 |
| Dibromofluoromethane | 106 | | 70-130 |

**Project Name:** EASTHAM LANDFILL
**Lab Number:** L1638614
**Project Number:** 2016-055
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-07
Client ID: DWP WELL
Sample Location: EASTHAM, MA
Matrix: Water
Analytical Method: 97,8260C
Analytical Date: 12/01/16 13:33
Analyst: MM

Date Collected: 11/29/16 12:45
Date Received: 11/29/16
Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| Methylene chloride | ND | | ug/l | 2.0 | -- | 1 |
| 1,1-Dichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Chloroform | ND | | ug/l | 1.0 | -- | 1 |
| Carbon tetrachloride | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | -- | 1 |
| Dibromochloromethane | ND | | ug/l | 1.0 | -- | 1 |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Tetrachloroethene | ND | | ug/l | 1.0 | -- | 1 |
| Chlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| Trichlorofluoromethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| 1,1,1-Trichloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Bromodichloromethane | ND | | ug/l | 1.0 | -- | 1 |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- | 1 |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- | 1 |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | -- | 1 |
| 1,1-Dichloropropene | ND | | ug/l | 2.0 | -- | 1 |
| Bromoform | ND | | ug/l | 2.0 | -- | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Benzene | ND | | ug/l | 0.50 | -- | 1 |
| Toluene | ND | | ug/l | 1.0 | -- | 1 |
| Ethylbenzene | ND | | ug/l | 1.0 | -- | 1 |
| Chloromethane | ND | | ug/l | 2.0 | -- | 1 |
| Bromomethane | ND | | ug/l | 2.0 | -- | 1 |
| Vinyl chloride | ND | | ug/l | 1.0 | -- | 1 |
| Chloroethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,1-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| trans-1,2-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| Trichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |

**Project Name:** EASTHAM LANDFILL **Lab Number:** L1638614

**Project Number:** 2016-055 **Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-07 Date Collected: 11/29/16 12:45

Client ID: DWP WELL Date Received: 11/29/16

Sample Location: EASTHAM, MA Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| 1,3-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| 1,4-Dichlorobenzene | ND | | ug/l | 1.0 | -- | 1 |
| Methyl tert butyl ether | ND | | ug/l | 2.0 | -- | 1 |
| p/m-Xylene | ND | | ug/l | 2.0 | -- | 1 |
| o-Xylene | ND | | ug/l | 1.0 | -- | 1 |
| Xylene (Total) | ND | | ug/l | 1.0 | -- | 1 |
| cis-1,2-Dichloroethene | ND | | ug/l | 1.0 | -- | 1 |
| 1,2-Dichloroethene (total) | ND | | ug/l | 1.0 | -- | 1 |
| Dibromomethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| Styrene | ND | | ug/l | 1.0 | -- | 1 |
| Dichlorodifluoromethane | ND | | ug/l | 2.0 | -- | 1 |
| Acetone | ND | | ug/l | 5.0 | -- | 1 |
| Carbon disulfide | ND | | ug/l | 2.0 | -- | 1 |
| 2-Butanone | ND | | ug/l | 5.0 | -- | 1 |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | -- | 1 |
| 2-Hexanone | ND | | ug/l | 5.0 | -- | 1 |
| Bromochloromethane | ND | | ug/l | 2.0 | -- | 1 |
| Tetrahydrofuran | ND | | ug/l | 2.0 | -- | 1 |
| 2,2-Dichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | -- | 1 |
| 1,3-Dichloropropane | ND | | ug/l | 2.0 | -- | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- | 1 |
| Bromobenzene | ND | | ug/l | 2.0 | -- | 1 |
| n-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| sec-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| tert-Butylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| o-Chlorotoluene | ND | | ug/l | 2.0 | -- | 1 |
| p-Chlorotoluene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.0 | -- | 1 |
| Hexachlorobutadiene | ND | | ug/l | 0.60 | -- | 1 |
| Isopropylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| p-Isopropyltoluene | ND | | ug/l | 2.0 | -- | 1 |
| Naphthalene | ND | | ug/l | 2.0 | -- | 1 |
| n-Propylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.0 | -- | 1 |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.0 | -- | 1 |

**Project Name:** EASTHAM LANDFILL **Lab Number:** L1638614

**Project Number:** 2016-055 **Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-07 Date Collected: 11/29/16 12:45

Client ID: DWP WELL Date Received: 11/29/16

Sample Location: EASTHAM, MA Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| **MCP Volatile Organics - Westborough Lab** | | | | | | |
| Ethyl ether | ND | | ug/l | 2.0 | -- | 1 |
| Isopropyl Ether | ND | | ug/l | 2.0 | -- | 1 |
| Ethyl-Tert-Butyl-Ether | ND | | ug/l | 2.0 | -- | 1 |
| Tertiary-Amyl Methyl Ether | ND | | ug/l | 2.0 | -- | 1 |
| 1,4-Dioxane | ND | | ug/l | 250 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | | 70-130 |
| Toluene-d8 | 93 | | 70-130 |
| 4-Bromofluorobenzene | 88 | | 70-130 |
| Dibromofluoromethane | **134** | Q | 70-130 |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 12/01/16 09:40
Analyst: MM

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab for sample(s): 07 Batch: WG956623-10 | | | | | |
| Methylene chloride | ND | | ug/l | 2.0 | -- |
| 1,1-Dichloroethane | ND | | ug/l | 1.0 | -- |
| Chloroform | ND | | ug/l | 1.0 | -- |
| Carbon tetrachloride | ND | | ug/l | 1.0 | -- |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | -- |
| Dibromochloromethane | ND | | ug/l | 1.0 | -- |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.0 | -- |
| Tetrachloroethene | ND | | ug/l | 1.0 | -- |
| Chlorobenzene | ND | | ug/l | 1.0 | -- |
| Trichlorofluoromethane | ND | | ug/l | 2.0 | -- |
| 1,2-Dichloroethane | ND | | ug/l | 1.0 | -- |
| 1,1,1-Trichloroethane | ND | | ug/l | 1.0 | -- |
| Bromodichloromethane | ND | | ug/l | 1.0 | -- |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | -- |
| 1,1-Dichloropropene | ND | | ug/l | 2.0 | -- |
| Bromoform | ND | | ug/l | 2.0 | -- |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- |
| Benzene | ND | | ug/l | 0.50 | -- |
| Toluene | ND | | ug/l | 1.0 | -- |
| Ethylbenzene | ND | | ug/l | 1.0 | -- |
| Chloromethane | ND | | ug/l | 2.0 | -- |
| Bromomethane | ND | | ug/l | 2.0 | -- |
| Vinyl chloride | ND | | ug/l | 1.0 | -- |
| Chloroethane | ND | | ug/l | 2.0 | -- |
| 1,1-Dichloroethene | ND | | ug/l | 1.0 | -- |
| trans-1,2-Dichloroethene | ND | | ug/l | 1.0 | -- |
| Trichloroethene | ND | | ug/l | 1.0 | -- |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 12/01/16 09:40
Analyst: MM

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab for sample(s): 07 Batch: WG956623-10 | | | | | |
| 1,2-Dichlorobenzene | ND | | ug/l | 1.0 | -- |
| 1,3-Dichlorobenzene | ND | | ug/l | 1.0 | -- |
| 1,4-Dichlorobenzene | ND | | ug/l | 1.0 | -- |
| Methyl tert butyl ether | ND | | ug/l | 2.0 | -- |
| p/m-Xylene | ND | | ug/l | 2.0 | -- |
| o-Xylene | ND | | ug/l | 1.0 | -- |
| Xylene (Total) | ND | | ug/l | 1.0 | -- |
| cis-1,2-Dichloroethene | ND | | ug/l | 1.0 | -- |
| 1,2-Dichloroethene (total) | ND | | ug/l | 1.0 | -- |
| Dibromomethane | ND | | ug/l | 2.0 | -- |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.0 | -- |
| Styrene | ND | | ug/l | 1.0 | -- |
| Dichlorodifluoromethane | ND | | ug/l | 2.0 | -- |
| Acetone | ND | | ug/l | 5.0 | -- |
| Carbon disulfide | ND | | ug/l | 2.0 | -- |
| 2-Butanone | ND | | ug/l | 5.0 | -- |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | -- |
| 2-Hexanone | ND | | ug/l | 5.0 | -- |
| Bromochloromethane | ND | | ug/l | 2.0 | -- |
| Tetrahydrofuran | ND | | ug/l | 2.0 | -- |
| 2,2-Dichloropropane | ND | | ug/l | 2.0 | -- |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | -- |
| 1,3-Dichloropropane | ND | | ug/l | 2.0 | -- |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- |
| Bromobenzene | ND | | ug/l | 2.0 | -- |
| n-Butylbenzene | ND | | ug/l | 2.0 | -- |
| sec-Butylbenzene | ND | | ug/l | 2.0 | -- |
| tert-Butylbenzene | ND | | ug/l | 2.0 | -- |
| o-Chlorotoluene | ND | | ug/l | 2.0 | -- |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 12/01/16 09:40
Analyst: MM

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab for sample(s): 07 Batch: WG956623-10 | | | | | |
| p-Chlorotoluene | ND | | ug/l | 2.0 | -- |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.0 | -- |
| Hexachlorobutadiene | ND | | ug/l | 0.60 | -- |
| Isopropylbenzene | ND | | ug/l | 2.0 | -- |
| p-Isopropyltoluene | ND | | ug/l | 2.0 | -- |
| Naphthalene | ND | | ug/l | 2.0 | -- |
| n-Propylbenzene | ND | | ug/l | 2.0 | -- |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.0 | -- |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.0 | -- |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.0 | -- |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.0 | -- |
| Ethyl ether | ND | | ug/l | 2.0 | -- |
| Isopropyl Ether | ND | | ug/l | 2.0 | -- |
| Ethyl-Tert-Butyl-Ether | ND | | ug/l | 2.0 | -- |
| Tertiary-Amyl Methyl Ether | ND | | ug/l | 2.0 | -- |
| 1,4-Dioxane | ND | | ug/l | 250 | -- |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | | 70-130 |
| Toluene-d8 | 91 | | 70-130 |
| 4-Bromofluorobenzene | 84 | | 70-130 |
| Dibromofluoromethane | 118 | | 70-130 |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 12/01/16 09:41
Analyst: MM

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG957329-5 | | | | | |
| Methylene chloride | ND | | ug/l | 2.0 | -- |
| 1,1-Dichloroethane | ND | | ug/l | 1.0 | -- |
| Chloroform | ND | | ug/l | 1.0 | -- |
| Carbon tetrachloride | ND | | ug/l | 1.0 | -- |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | -- |
| Dibromochloromethane | ND | | ug/l | 1.0 | -- |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.0 | -- |
| Tetrachloroethene | ND | | ug/l | 1.0 | -- |
| Chlorobenzene | ND | | ug/l | 1.0 | -- |
| Trichlorofluoromethane | ND | | ug/l | 2.0 | -- |
| 1,2-Dichloroethane | ND | | ug/l | 1.0 | -- |
| 1,1,1-Trichloroethane | ND | | ug/l | 1.0 | -- |
| Bromodichloromethane | ND | | ug/l | 1.0 | -- |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | -- |
| 1,1-Dichloropropene | ND | | ug/l | 2.0 | -- |
| Bromoform | ND | | ug/l | 2.0 | -- |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- |
| Benzene | ND | | ug/l | 0.50 | -- |
| Toluene | ND | | ug/l | 1.0 | -- |
| Ethylbenzene | ND | | ug/l | 1.0 | -- |
| Chloromethane | ND | | ug/l | 2.0 | -- |
| Bromomethane | ND | | ug/l | 2.0 | -- |
| Vinyl chloride | ND | | ug/l | 1.0 | -- |
| Chloroethane | ND | | ug/l | 2.0 | -- |
| 1,1-Dichloroethene | ND | | ug/l | 1.0 | -- |
| trans-1,2-Dichloroethene | ND | | ug/l | 1.0 | -- |
| Trichloroethene | ND | | ug/l | 1.0 | -- |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 12/01/16 09:41
Analyst: MM

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG957329-5 | | | | | |
| 1,2-Dichlorobenzene | ND | | ug/l | 1.0 | -- |
| 1,3-Dichlorobenzene | ND | | ug/l | 1.0 | -- |
| 1,4-Dichlorobenzene | ND | | ug/l | 1.0 | -- |
| Methyl tert butyl ether | ND | | ug/l | 2.0 | -- |
| p/m-Xylene | ND | | ug/l | 2.0 | -- |
| o-Xylene | ND | | ug/l | 1.0 | -- |
| Xylene (Total) | ND | | ug/l | 1.0 | -- |
| cis-1,2-Dichloroethene | ND | | ug/l | 1.0 | -- |
| 1,2-Dichloroethene (total) | ND | | ug/l | 1.0 | -- |
| Dibromomethane | ND | | ug/l | 2.0 | -- |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.0 | -- |
| Styrene | ND | | ug/l | 1.0 | -- |
| Dichlorodifluoromethane | ND | | ug/l | 2.0 | -- |
| Acetone | ND | | ug/l | 5.0 | -- |
| Carbon disulfide | ND | | ug/l | 2.0 | -- |
| 2-Butanone | ND | | ug/l | 5.0 | -- |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | -- |
| 2-Hexanone | ND | | ug/l | 5.0 | -- |
| Bromochloromethane | ND | | ug/l | 2.0 | -- |
| Tetrahydrofuran | ND | | ug/l | 2.0 | -- |
| 2,2-Dichloropropane | ND | | ug/l | 2.0 | -- |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | -- |
| 1,3-Dichloropropane | ND | | ug/l | 2.0 | -- |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- |
| Bromobenzene | ND | | ug/l | 2.0 | -- |
| n-Butylbenzene | ND | | ug/l | 2.0 | -- |
| sec-Butylbenzene | ND | | ug/l | 2.0 | -- |
| tert-Butylbenzene | ND | | ug/l | 2.0 | -- |
| o-Chlorotoluene | ND | | ug/l | 2.0 | -- |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 12/01/16 09:41
Analyst: MM

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG957329-5 | | | | | |
| p-Chlorotoluene | ND | | ug/l | 2.0 | -- |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.0 | -- |
| Hexachlorobutadiene | ND | | ug/l | 0.60 | -- |
| Isopropylbenzene | ND | | ug/l | 2.0 | -- |
| p-Isopropyltoluene | ND | | ug/l | 2.0 | -- |
| Naphthalene | ND | | ug/l | 2.0 | -- |
| n-Propylbenzene | ND | | ug/l | 2.0 | -- |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.0 | -- |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.0 | -- |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.0 | -- |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.0 | -- |
| Ethyl ether | ND | | ug/l | 2.0 | -- |
| Isopropyl Ether | ND | | ug/l | 2.0 | -- |
| Ethyl-Tert-Butyl-Ether | ND | | ug/l | 2.0 | -- |
| Tertiary-Amyl Methyl Ether | ND | | ug/l | 2.0 | -- |
| 1,4-Dioxane | ND | | ug/l | 250 | -- |

| Tentatively Identified Compounds | | |
|---|---|---|
| No Tentatively Identified Compounds | ND | ug/l |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 12/01/16 09:41
Analyst: MM

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab for sample(s): 01-04 Batch: WG957329-5 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | | 70-130 |
| Toluene-d8 | 102 | | 70-130 |
| 4-Bromofluorobenzene | 100 | | 70-130 |
| Dibromofluoromethane | 104 | | 70-130 |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 12/02/16 11:59
Analyst: PK

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab for sample(s): 05-06 Batch: WG957909-5 | | | | | |
| Methylene chloride | ND | | ug/l | 2.0 | -- |
| 1,1-Dichloroethane | ND | | ug/l | 1.0 | -- |
| Chloroform | ND | | ug/l | 1.0 | -- |
| Carbon tetrachloride | ND | | ug/l | 1.0 | -- |
| 1,2-Dichloropropane | ND | | ug/l | 1.0 | -- |
| Dibromochloromethane | ND | | ug/l | 1.0 | -- |
| 1,1,2-Trichloroethane | ND | | ug/l | 1.0 | -- |
| Tetrachloroethene | ND | | ug/l | 1.0 | -- |
| Chlorobenzene | ND | | ug/l | 1.0 | -- |
| Trichlorofluoromethane | ND | | ug/l | 2.0 | -- |
| 1,2-Dichloroethane | ND | | ug/l | 1.0 | -- |
| 1,1,1-Trichloroethane | ND | | ug/l | 1.0 | -- |
| Bromodichloromethane | ND | | ug/l | 1.0 | -- |
| trans-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- |
| cis-1,3-Dichloropropene | ND | | ug/l | 0.50 | -- |
| 1,3-Dichloropropene, Total | ND | | ug/l | 0.50 | -- |
| 1,1-Dichloropropene | ND | | ug/l | 2.0 | -- |
| Bromoform | ND | | ug/l | 2.0 | -- |
| 1,1,2,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- |
| Benzene | ND | | ug/l | 0.50 | -- |
| Toluene | ND | | ug/l | 1.0 | -- |
| Ethylbenzene | ND | | ug/l | 1.0 | -- |
| Chloromethane | ND | | ug/l | 2.0 | -- |
| Bromomethane | ND | | ug/l | 2.0 | -- |
| Vinyl chloride | ND | | ug/l | 1.0 | -- |
| Chloroethane | ND | | ug/l | 2.0 | -- |
| 1,1-Dichloroethene | ND | | ug/l | 1.0 | -- |
| trans-1,2-Dichloroethene | ND | | ug/l | 1.0 | -- |
| Trichloroethene | ND | | ug/l | 1.0 | -- |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 12/02/16 11:59
Analyst: PK

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab for sample(s): 05-06 Batch: WG957909-5 | | | | | |
| 1,2-Dichlorobenzene | ND | | ug/l | 1.0 | -- |
| 1,3-Dichlorobenzene | ND | | ug/l | 1.0 | -- |
| 1,4-Dichlorobenzene | ND | | ug/l | 1.0 | -- |
| Methyl tert butyl ether | ND | | ug/l | 2.0 | -- |
| p/m-Xylene | ND | | ug/l | 2.0 | -- |
| o-Xylene | ND | | ug/l | 1.0 | -- |
| Xylene (Total) | ND | | ug/l | 1.0 | -- |
| cis-1,2-Dichloroethene | ND | | ug/l | 1.0 | -- |
| 1,2-Dichloroethene (total) | ND | | ug/l | 1.0 | -- |
| Dibromomethane | ND | | ug/l | 2.0 | -- |
| 1,2,3-Trichloropropane | ND | | ug/l | 2.0 | -- |
| Styrene | ND | | ug/l | 1.0 | -- |
| Dichlorodifluoromethane | ND | | ug/l | 2.0 | -- |
| Acetone | ND | | ug/l | 5.0 | -- |
| Carbon disulfide | ND | | ug/l | 2.0 | -- |
| 2-Butanone | ND | | ug/l | 5.0 | -- |
| 4-Methyl-2-pentanone | ND | | ug/l | 5.0 | -- |
| 2-Hexanone | ND | | ug/l | 5.0 | -- |
| Bromochloromethane | ND | | ug/l | 2.0 | -- |
| Tetrahydrofuran | ND | | ug/l | 2.0 | -- |
| 2,2-Dichloropropane | ND | | ug/l | 2.0 | -- |
| 1,2-Dibromoethane | ND | | ug/l | 2.0 | -- |
| 1,3-Dichloropropane | ND | | ug/l | 2.0 | -- |
| 1,1,1,2-Tetrachloroethane | ND | | ug/l | 1.0 | -- |
| Bromobenzene | ND | | ug/l | 2.0 | -- |
| n-Butylbenzene | ND | | ug/l | 2.0 | -- |
| sec-Butylbenzene | ND | | ug/l | 2.0 | -- |
| tert-Butylbenzene | ND | | ug/l | 2.0 | -- |
| o-Chlorotoluene | ND | | ug/l | 2.0 | -- |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 12/02/16 11:59
Analyst: PK

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab for sample(s): 05-06 Batch: WG957909-5 | | | | | |
| p-Chlorotoluene | ND | | ug/l | 2.0 | -- |
| 1,2-Dibromo-3-chloropropane | ND | | ug/l | 2.0 | -- |
| Hexachlorobutadiene | ND | | ug/l | 0.60 | -- |
| Isopropylbenzene | ND | | ug/l | 2.0 | -- |
| p-Isopropyltoluene | ND | | ug/l | 2.0 | -- |
| Naphthalene | ND | | ug/l | 2.0 | -- |
| n-Propylbenzene | ND | | ug/l | 2.0 | -- |
| 1,2,3-Trichlorobenzene | ND | | ug/l | 2.0 | -- |
| 1,2,4-Trichlorobenzene | ND | | ug/l | 2.0 | -- |
| 1,3,5-Trimethylbenzene | ND | | ug/l | 2.0 | -- |
| 1,2,4-Trimethylbenzene | ND | | ug/l | 2.0 | -- |
| Ethyl ether | ND | | ug/l | 2.0 | -- |
| Isopropyl Ether | ND | | ug/l | 2.0 | -- |
| Ethyl-Tert-Butyl-Ether | ND | | ug/l | 2.0 | -- |
| Tertiary-Amyl Methyl Ether | ND | | ug/l | 2.0 | -- |
| 1,4-Dioxane | ND | | ug/l | 250 | -- |
| Tentatively Identified Compounds | | | | | |
| No Tentatively Identified Compounds | ND | | ug/l | | |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 12/02/16 11:59
Analyst: PK

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab for sample(s): 05-06 Batch: WG957909-5 | | | | | |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 107 | | 70-130 |
| Toluene-d8 | 101 | | 70-130 |
| 4-Bromofluorobenzene | 98 | | 70-130 |
| Dibromofluoromethane | 102 | | 70-130 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055

**Lab Number:** L1638614
**Report Date:** 12/06/16

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab Associated sample(s): 07 Batch: WG956623-8 WG956623-9 | | | | | | | | |
| Methylene chloride | 96 | | 88 | | 70-130 | 9 | | 20 |
| 1,1-Dichloroethane | 100 | | 110 | | 70-130 | 10 | | 20 |
| Chloroform | 110 | | 100 | | 70-130 | 10 | | 20 |
| Carbon tetrachloride | 120 | | 120 | | 70-130 | 0 | | 20 |
| 1,2-Dichloropropane | 91 | | 90 | | 70-130 | 1 | | 20 |
| Dibromochloromethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,1,2-Trichloroethane | 97 | | 86 | | 70-130 | 12 | | 20 |
| Tetrachloroethene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Chlorobenzene | 100 | | 99 | | 70-130 | 1 | | 20 |
| Trichlorofluoromethane | 120 | | 110 | | 70-130 | 9 | | 20 |
| 1,2-Dichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| Bromodichloromethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| trans-1,3-Dichloropropene | 84 | | 82 | | 70-130 | 2 | | 20 |
| cis-1,3-Dichloropropene | 94 | | 95 | | 70-130 | 1 | | 20 |
| 1,1-Dichloropropene | 99 | | 92 | | 70-130 | 7 | | 20 |
| Bromoform | 92 | | 89 | | 70-130 | 3 | | 20 |
| 1,1,2,2-Tetrachloroethane | 86 | | 78 | | 70-130 | 10 | | 20 |
| Benzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Toluene | 96 | | 91 | | 70-130 | 5 | | 20 |
| Ethylbenzene | 90 | | 89 | | 70-130 | 1 | | 20 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055

**Lab Number:** L1638614
**Report Date:** 12/06/16

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab Associated sample(s): 07 Batch: WG956623-8 WG956623-9 | | | | | | | | |
| Chloromethane | 75 | | 77 | | 70-130 | 3 | | 20 |
| Bromomethane | 80 | | 86 | | 70-130 | 7 | | 20 |
| Vinyl chloride | 81 | | 80 | | 70-130 | 1 | | 20 |
| Chloroethane | 87 | | 85 | | 70-130 | 2 | | 20 |
| 1,1-Dichloroethene | 99 | | 99 | | 70-130 | 0 | | 20 |
| trans-1,2-Dichloroethene | 120 | | 100 | | 70-130 | 18 | | 20 |
| Trichloroethene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | 100 | | 92 | | 70-130 | 8 | | 20 |
| 1,3-Dichlorobenzene | 95 | | 91 | | 70-130 | 4 | | 20 |
| 1,4-Dichlorobenzene | 91 | | 89 | | 70-130 | 2 | | 20 |
| Methyl tert butyl ether | 130 | | 120 | | 70-130 | 8 | | 20 |
| p/m-Xylene | 100 | | 95 | | 70-130 | 5 | | 20 |
| o-Xylene | 95 | | 95 | | 70-130 | 0 | | 20 |
| cis-1,2-Dichloroethene | 120 | | 120 | | 70-130 | 0 | | 20 |
| Dibromomethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2,3-Trichloropropane | 84 | | 75 | | 70-130 | 11 | | 20 |
| Styrene | 95 | | 95 | | 70-130 | 0 | | 20 |
| Dichlorodifluoromethane | 100 | | 99 | | 70-130 | 1 | | 20 |
| Acetone | 100 | | 94 | | 70-130 | 6 | | 20 |
| Carbon disulfide | 81 | | 80 | | 70-130 | 1 | | 20 |
| 2-Butanone | 88 | | 82 | | 70-130 | 7 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** EASTHAM LANDFILL

**Project Number:** 2016-055

**Lab Number:** L1638614

**Report Date:** 12/06/16

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab Associated sample(s): 07 Batch: WG956623-8 WG956623-9 | | | | | | | | |
| 4-Methyl-2-pentanone | 83 | | 74 | | 70-130 | 11 | | 20 |
| 2-Hexanone | **64** | Q | **64** | Q | 70-130 | 0 | | 20 |
| Bromochloromethane | 120 | | 120 | | 70-130 | 0 | | 20 |
| Tetrahydrofuran | 78 | | 87 | | 70-130 | 11 | | 20 |
| 2,2-Dichloropropane | 100 | | 98 | | 70-130 | 2 | | 20 |
| 1,2-Dibromoethane | 98 | | 100 | | 70-130 | 2 | | 20 |
| 1,3-Dichloropropane | 89 | | 86 | | 70-130 | 3 | | 20 |
| 1,1,1,2-Tetrachloroethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| Bromobenzene | 90 | | 90 | | 70-130 | 0 | | 20 |
| n-Butylbenzene | 85 | | 80 | | 70-130 | 6 | | 20 |
| sec-Butylbenzene | 82 | | 79 | | 70-130 | 4 | | 20 |
| tert-Butylbenzene | 84 | | 81 | | 70-130 | 4 | | 20 |
| o-Chlorotoluene | 79 | | 74 | | 70-130 | 7 | | 20 |
| p-Chlorotoluene | 79 | | 76 | | 70-130 | 4 | | 20 |
| 1,2-Dibromo-3-chloropropane | 100 | | 99 | | 70-130 | 1 | | 20 |
| Hexachlorobutadiene | 100 | | 98 | | 70-130 | 2 | | 20 |
| Isopropylbenzene | 81 | | 76 | | 70-130 | 6 | | 20 |
| p-Isopropyltoluene | 88 | | 84 | | 70-130 | 5 | | 20 |
| Naphthalene | 95 | | 88 | | 70-130 | 8 | | 20 |
| n-Propylbenzene | 79 | | 74 | | 70-130 | 7 | | 20 |
| 1,2,3-Trichlorobenzene | 98 | | 96 | | 70-130 | 2 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** EASTHAM LANDFILL

**Project Number:** 2016-055

**Lab Number:** L1638614

**Report Date:** 12/06/16

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab Associated sample(s): 07 Batch: WG956623-8 WG956623-9 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 98 | | 97 | | 70-130 | 1 | | 20 |
| 1,3,5-Trimethylbenzene | 83 | | 81 | | 70-130 | 2 | | 20 |
| 1,2,4-Trimethylbenzene | 85 | | 81 | | 70-130 | 5 | | 20 |
| Ethyl ether | 110 | | 100 | | 70-130 | 10 | | 20 |
| Isopropyl Ether | 100 | | 99 | | 70-130 | 1 | | 20 |
| Ethyl-Tert-Butyl-Ether | 100 | | 100 | | 70-130 | 0 | | 20 |
| Tertiary-Amyl Methyl Ether | 110 | | 100 | | 70-130 | 10 | | 20 |
| 1,4-Dioxane | **146** | Q | 116 | | 70-130 | **23** | Q | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | | 97 | | 70-130 |
| Toluene-d8 | 88 | | 89 | | 70-130 |
| 4-Bromofluorobenzene | 83 | | 83 | | 70-130 |
| Dibromofluoromethane | 109 | | 109 | | 70-130 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** EASTHAM LANDFILL

**Project Number:** 2016-055

**Lab Number:** L1638614

**Report Date:** 12/06/16

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG957329-3 WG957329-4 | | | | | | | | |
| Methylene chloride | 100 | | 99 | | 70-130 | 1 | | 20 |
| 1,1-Dichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| Chloroform | 110 | | 110 | | 70-130 | 0 | | 20 |
| Carbon tetrachloride | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2-Dichloropropane | 100 | | 100 | | 70-130 | 0 | | 20 |
| Dibromochloromethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,1,2-Trichloroethane | 100 | | 110 | | 70-130 | 10 | | 20 |
| Tetrachloroethene | 100 | | 110 | | 70-130 | 10 | | 20 |
| Chlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Trichlorofluoromethane | 120 | | 110 | | 70-130 | 9 | | 20 |
| 1,2-Dichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| Bromodichloromethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| trans-1,3-Dichloropropene | 100 | | 100 | | 70-130 | 0 | | 20 |
| cis-1,3-Dichloropropene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,1-Dichloropropene | 110 | | 110 | | 70-130 | 0 | | 20 |
| Bromoform | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,1,2,2-Tetrachloroethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| Benzene | 110 | | 100 | | 70-130 | 10 | | 20 |
| Toluene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Ethylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** EASTHAM LANDFILL

**Project Number:** 2016-055

**Lab Number:** L1638614

**Report Date:** 12/06/16

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG957329-3 WG957329-4 | | | | | | | | |
| Chloromethane | 110 | | 100 | | 70-130 | 10 | | 20 |
| Bromomethane | 130 | | 120 | | 70-130 | 8 | | 20 |
| Vinyl chloride | 120 | | 110 | | 70-130 | 9 | | 20 |
| Chloroethane | 120 | | 110 | | 70-130 | 9 | | 20 |
| 1,1-Dichloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| trans-1,2-Dichloroethene | 110 | | 100 | | 70-130 | 10 | | 20 |
| Trichloroethene | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,3-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,4-Dichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Methyl tert butyl ether | 100 | | 100 | | 70-130 | 0 | | 20 |
| p/m-Xylene | 105 | | 105 | | 70-130 | 0 | | 20 |
| o-Xylene | 105 | | 110 | | 70-130 | 5 | | 20 |
| cis-1,2-Dichloroethene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Dibromomethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2,3-Trichloropropane | 100 | | 100 | | 70-130 | 0 | | 20 |
| Styrene | 105 | | 105 | | 70-130 | 0 | | 20 |
| Dichlorodifluoromethane | 110 | | 110 | | 70-130 | 0 | | 20 |
| Acetone | 120 | | 120 | | 70-130 | 0 | | 20 |
| Carbon disulfide | 110 | | 110 | | 70-130 | 0 | | 20 |
| 2-Butanone | 94 | | 110 | | 70-130 | 16 | | 20 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055

**Lab Number:** L1638614
**Report Date:** 12/06/16

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG957329-3 WG957329-4 | | | | | | | | |
| 4-Methyl-2-pentanone | 93 | | 100 | | 70-130 | 7 | | 20 |
| 2-Hexanone | 98 | | 100 | | 70-130 | 2 | | 20 |
| Bromochloromethane | 110 | | 100 | | 70-130 | 10 | | 20 |
| Tetrahydrofuran | 95 | | 99 | | 70-130 | 4 | | 20 |
| 2,2-Dichloropropane | 110 | | 110 | | 70-130 | 0 | | 20 |
| 1,2-Dibromoethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,3-Dichloropropane | 100 | | 110 | | 70-130 | 10 | | 20 |
| 1,1,1,2-Tetrachloroethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| Bromobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| n-Butylbenzene | 110 | | 110 | | 70-130 | 0 | | 20 |
| sec-Butylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| tert-Butylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| o-Chlorotoluene | 100 | | 100 | | 70-130 | 0 | | 20 |
| p-Chlorotoluene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2-Dibromo-3-chloropropane | 95 | | 99 | | 70-130 | 4 | | 20 |
| Hexachlorobutadiene | 110 | | 100 | | 70-130 | 10 | | 20 |
| Isopropylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| p-Isopropyltoluene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Naphthalene | 99 | | 100 | | 70-130 | 1 | | 20 |
| n-Propylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2,3-Trichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** EASTHAM LANDFILL

**Project Number:** 2016-055

**Lab Number:** L1638614

**Report Date:** 12/06/16

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab Associated sample(s): 01-04 Batch: WG957329-3 WG957329-4 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,3,5-Trimethylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,2,4-Trimethylbenzene | 100 | | 100 | | 70-130 | 0 | | 20 |
| Ethyl ether | 110 | | 110 | | 70-130 | 0 | | 20 |
| Isopropyl Ether | 110 | | 100 | | 70-130 | 10 | | 20 |
| Ethyl-Tert-Butyl-Ether | 110 | | 100 | | 70-130 | 10 | | 20 |
| Tertiary-Amyl Methyl Ether | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,4-Dioxane | 116 | | 114 | | 70-130 | 2 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 107 | | 104 | | 70-130 |
| Toluene-d8 | 101 | | 100 | | 70-130 |
| 4-Bromofluorobenzene | 98 | | 97 | | 70-130 |
| Dibromofluoromethane | 105 | | 102 | | 70-130 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055

**Lab Number:** L1638614
**Report Date:** 12/06/16

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab Associated sample(s): 05-06 Batch: WG957909-3 WG957909-4 | | | | | | | | |
| Methylene chloride | 97 | | 92 | | 70-130 | 5 | | 20 |
| 1,1-Dichloroethane | 100 | | 97 | | 70-130 | 3 | | 20 |
| Chloroform | 100 | | 98 | | 70-130 | 2 | | 20 |
| Carbon tetrachloride | 100 | | 91 | | 70-130 | 9 | | 20 |
| 1,2-Dichloropropane | 100 | | 96 | | 70-130 | 4 | | 20 |
| Dibromochloromethane | 98 | | 95 | | 70-130 | 3 | | 20 |
| 1,1,2-Trichloroethane | 100 | | 99 | | 70-130 | 1 | | 20 |
| Tetrachloroethene | 96 | | 90 | | 70-130 | 6 | | 20 |
| Chlorobenzene | 99 | | 94 | | 70-130 | 5 | | 20 |
| Trichlorofluoromethane | 120 | | 110 | | 70-130 | 9 | | 20 |
| 1,2-Dichloroethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| 1,1,1-Trichloroethane | 99 | | 91 | | 70-130 | 8 | | 20 |
| Bromodichloromethane | 100 | | 94 | | 70-130 | 6 | | 20 |
| trans-1,3-Dichloropropene | 99 | | 96 | | 70-130 | 3 | | 20 |
| cis-1,3-Dichloropropene | 100 | | 97 | | 70-130 | 3 | | 20 |
| 1,1-Dichloropropene | 100 | | 92 | | 70-130 | 8 | | 20 |
| Bromoform | 100 | | 98 | | 70-130 | 2 | | 20 |
| 1,1,2,2-Tetrachloroethane | 100 | | 100 | | 70-130 | 0 | | 20 |
| Benzene | 100 | | 95 | | 70-130 | 5 | | 20 |
| Toluene | 97 | | 92 | | 70-130 | 5 | | 20 |
| Ethylbenzene | 98 | | 93 | | 70-130 | 5 | | 20 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055

**Lab Number:** L1638614
**Report Date:** 12/06/16

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab Associated sample(s): 05-06 Batch: WG957909-3 WG957909-4 | | | | | | | | |
| Chloromethane | 100 | | 92 | | 70-130 | 8 | | 20 |
| Bromomethane | 130 | | 120 | | 70-130 | 8 | | 20 |
| Vinyl chloride | 120 | | 110 | | 70-130 | 9 | | 20 |
| Chloroethane | 120 | | 110 | | 70-130 | 9 | | 20 |
| 1,1-Dichloroethene | 99 | | 89 | | 70-130 | 11 | | 20 |
| trans-1,2-Dichloroethene | 98 | | 90 | | 70-130 | 9 | | 20 |
| Trichloroethene | 100 | | 94 | | 70-130 | 6 | | 20 |
| 1,2-Dichlorobenzene | 98 | | 94 | | 70-130 | 4 | | 20 |
| 1,3-Dichlorobenzene | 97 | | 93 | | 70-130 | 4 | | 20 |
| 1,4-Dichlorobenzene | 98 | | 92 | | 70-130 | 6 | | 20 |
| Methyl tert butyl ether | 100 | | 98 | | 70-130 | 2 | | 20 |
| p/m-Xylene | 100 | | 95 | | 70-130 | 5 | | 20 |
| o-Xylene | 100 | | 95 | | 70-130 | 5 | | 20 |
| cis-1,2-Dichloroethene | 99 | | 94 | | 70-130 | 5 | | 20 |
| Dibromomethane | 110 | | 100 | | 70-130 | 10 | | 20 |
| 1,2,3-Trichloropropane | 100 | | 98 | | 70-130 | 2 | | 20 |
| Styrene | 100 | | 95 | | 70-130 | 5 | | 20 |
| Dichlorodifluoromethane | 100 | | 94 | | 70-130 | 6 | | 20 |
| Acetone | 110 | | 100 | | 70-130 | 10 | | 20 |
| Carbon disulfide | 110 | | 92 | | 70-130 | 18 | | 20 |
| 2-Butanone | 110 | | 100 | | 70-130 | 10 | | 20 |

# Lab Control Sample Analysis
## Batch Quality Control

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055

**Lab Number:** L1638614
**Report Date:** 12/06/16

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab Associated sample(s): 05-06 Batch: WG957909-3 WG957909-4 | | | | | | | | |
| 4-Methyl-2-pentanone | 94 | | 93 | | 70-130 | 1 | | 20 |
| 2-Hexanone | 97 | | 96 | | 70-130 | 1 | | 20 |
| Bromochloromethane | 100 | | 99 | | 70-130 | 1 | | 20 |
| Tetrahydrofuran | 100 | | 98 | | 70-130 | 2 | | 20 |
| 2,2-Dichloropropane | 100 | | 92 | | 70-130 | 8 | | 20 |
| 1,2-Dibromoethane | 100 | | 99 | | 70-130 | 1 | | 20 |
| 1,3-Dichloropropane | 100 | | 99 | | 70-130 | 1 | | 20 |
| 1,1,1,2-Tetrachloroethane | 98 | | 94 | | 70-130 | 4 | | 20 |
| Bromobenzene | 96 | | 92 | | 70-130 | 4 | | 20 |
| n-Butylbenzene | 100 | | 93 | | 70-130 | 7 | | 20 |
| sec-Butylbenzene | 94 | | 92 | | 70-130 | 2 | | 20 |
| tert-Butylbenzene | 95 | | 90 | | 70-130 | 5 | | 20 |
| o-Chlorotoluene | 95 | | 90 | | 70-130 | 5 | | 20 |
| p-Chlorotoluene | 97 | | 92 | | 70-130 | 5 | | 20 |
| 1,2-Dibromo-3-chloropropane | 92 | | 94 | | 70-130 | 2 | | 20 |
| Hexachlorobutadiene | 97 | | 89 | | 70-130 | 9 | | 20 |
| Isopropylbenzene | 95 | | 89 | | 70-130 | 7 | | 20 |
| p-Isopropyltoluene | 95 | | 90 | | 70-130 | 5 | | 20 |
| Naphthalene | 97 | | 93 | | 70-130 | 4 | | 20 |
| n-Propylbenzene | 97 | | 91 | | 70-130 | 6 | | 20 |
| 1,2,3-Trichlorobenzene | 95 | | 94 | | 70-130 | 1 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** EASTHAM LANDFILL

**Project Number:** 2016-055

**Lab Number:** L1638614

**Report Date:** 12/06/16

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| MCP Volatile Organics - Westborough Lab Associated sample(s): 05-06 Batch: WG957909-3 WG957909-4 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 95 | | 92 | | 70-130 | 3 | | 20 |
| 1,3,5-Trimethylbenzene | 97 | | 91 | | 70-130 | 6 | | 20 |
| 1,2,4-Trimethylbenzene | 96 | | 91 | | 70-130 | 5 | | 20 |
| Ethyl ether | 120 | | 110 | | 70-130 | 9 | | 20 |
| Isopropyl Ether | 100 | | 96 | | 70-130 | 4 | | 20 |
| Ethyl-Tert-Butyl-Ether | 100 | | 98 | | 70-130 | 2 | | 20 |
| Tertiary-Amyl Methyl Ether | 100 | | 96 | | 70-130 | 4 | | 20 |
| 1,4-Dioxane | **148** | Q | **132** | Q | 70-130 | 11 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | | 106 | | 70-130 |
| Toluene-d8 | 100 | | 101 | | 70-130 |
| 4-Bromofluorobenzene | 97 | | 96 | | 70-130 |
| Dibromofluoromethane | 105 | | 104 | | 70-130 |

# SEMIVOLATILES

**Project Name:** EASTHAM LANDFILL
**Lab Number:** L1638614
**Project Number:** 2016-055
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-01
Client ID: MW-3I
Sample Location: EASTHAM, MA
Matrix: Water
Analytical Method: 97,8270D-SIM
Analytical Date: 12/02/16 14:10
Analyst: SF

Date Collected: 11/29/16 10:30
Date Received: 11/29/16
Field Prep: None
Extraction Method: EPA 3510C
Extraction Date: 12/01/16 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 | 0.144 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,4-Dioxane-d8 | 27 | | 15-110 |

**Project Name:** EASTHAM LANDFILL
**Lab Number:** L1638614
**Project Number:** 2016-055
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-02
Client ID: MW-3D
Sample Location: EASTHAM, MA
Matrix: Water
Analytical Method: 97,8270D-SIM
Analytical Date: 12/02/16 14:56
Analyst: SF

Date Collected: 11/29/16 10:30
Date Received: 11/29/16
Field Prep: None
Extraction Method: EPA 3510C
Extraction Date: 12/01/16 14:00

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab | | | | | | |
| 1,4-Dioxane | 6.37 | | ug/l | 0.144 | -- | 1 |

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

**Project Name:** EASTHAM LANDFILL
**Lab Number:** L1638614
**Project Number:** 2016-055
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-03
Client ID: MW-2S
Sample Location: EASTHAM, MA
Matrix: Water
Analytical Method: 97,8270D-SIM
Analytical Date: 12/02/16 15:43
Analyst: SF

Date Collected: 11/29/16 09:45
Date Received: 11/29/16
Field Prep: None
Extraction Method: EPA 3510C
Extraction Date: 12/01/16 14:00

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab | | | | | | |
| 1,4-Dioxane | 0.373 | | ug/l | 0.144 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,4-Dioxane-d8 | 31 | | 15-110 |

**Project Name:** EASTHAM LANDFILL
**Lab Number:** L1638614
**Project Number:** 2016-055
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-04
Client ID: MW-4S
Sample Location: EASTHAM, MA
Matrix: Water
Analytical Method: 97,8270D-SIM
Analytical Date: 12/02/16 16:29
Analyst: SF

Date Collected: 11/29/16 11:30
Date Received: 11/29/16
Field Prep: None
Extraction Method: EPA 3510C
Extraction Date: 12/01/16 14:00

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab | | | | | | |
| 1,4-Dioxane | 1.18 | | ug/l | 0.144 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,4-Dioxane-d8 | 32 | | 15-110 |

**Project Name:** EASTHAM LANDFILL
**Lab Number:** L1638614
**Project Number:** 2016-055
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-05
Client ID: MW-5S
Sample Location: EASTHAM, MA
Matrix: Water
Analytical Method: 97,8270D-SIM
Analytical Date: 12/02/16 17:15
Analyst: SF

Date Collected: 11/29/16 12:00
Date Received: 11/29/16
Field Prep: None
Extraction Method: EPA 3510C
Extraction Date: 12/01/16 14:00

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab | | | | | | |
| 1,4-Dioxane | 1.17 | | ug/l | 0.144 | -- | 1 |

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

**Project Name:** EASTHAM LANDFILL
**Lab Number:** L1638614
**Project Number:** 2016-055
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-06
Client ID: MW-8
Sample Location: EASTHAM, MA
Matrix: Water
Analytical Method: 97,8270D-SIM
Analytical Date: 12/02/16 18:01
Analyst: SF

Date Collected: 11/29/16 13:15
Date Received: 11/29/16
Field Prep: None
Extraction Method: EPA 3510C
Extraction Date: 12/01/16 14:00

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|---|---|---|---|---|---|---|
| MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab | | | | | | |
| 1,4-Dioxane | 0.376 | | ug/l | 0.147 | -- | 1 |

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

**Project Name:** EASTHAM LANDFILL
**Lab Number:** L1638614
**Project Number:** 2016-055
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-07
Client ID: DWP WELL
Sample Location: EASTHAM, MA
Matrix: Water
Analytical Method: 97,8270D-SIM
Analytical Date: 12/02/16 18:47
Analyst: SF

Date Collected: 11/29/16 12:45
Date Received: 11/29/16
Field Prep: None
Extraction Method: EPA 3510C
Extraction Date: 12/01/16 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 | 0.142 | -- | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,4-Dioxane-d8 | 32 | | 15-110 |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

# Method Blank Analysis
## Batch Quality Control

Analytical Method: 97,8270D-SIM
Analytical Date: 12/02/16 00:23
Analyst: SF

Extraction Method: EPA 3510C
Extraction Date: 12/01/16 14:00

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|---|---|---|---|---|
| MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01-07 Batch: WG957201-1 | | | | | |
| 1,4-Dioxane | ND | | ug/l | 0.150 | -- |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|---|---|---|---|
| 1,4-Dioxane-d8 | 32 | | 15-110 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** EASTHAM LANDFILL

**Project Number:** 2016-055

**Lab Number:** L1638614

**Report Date:** 12/06/16

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| MCP 1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01-07 Batch: WG957201-2 WG957201-3 | | | | | | | | |
| 1,4-Dioxane | 112 | | 114 | | 40-140 | 2 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|---|---|---|---|---|---|
| 1,4-Dioxane-d8 | 32 | | 35 | | 15-110 |

# METALS

**Project Name:** EASTHAM LANDFILL
**Lab Number:** L1638614
**Project Number:** 2016-055
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-01
Client ID: MW-3I
Sample Location: EASTHAM, MA
Matrix: Water

Date Collected: 11/29/16 10:30
Date Received: 11/29/16
Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MCP Dissolved Metals - Mansfield Lab** | | | | | | | | | | | |
| Arsenic, Dissolved | 0.026 | | mg/l | 0.005 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:06 | EPA 3005A | 97,6010C | FB |
| Barium, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:06 | EPA 3005A | 97,6010C | FB |
| Cadmium, Dissolved | ND | | mg/l | 0.004 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:06 | EPA 3005A | 97,6010C | FB |
| Chromium, Dissolved | ND | | mg/l | 0.01 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:06 | EPA 3005A | 97,6010C | FB |
| Copper, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:06 | EPA 3005A | 97,6010C | FB |
| Iron, Dissolved | 53 | | mg/l | 0.05 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:06 | EPA 3005A | 97,6010C | FB |
| Lead, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:06 | EPA 3005A | 97,6010C | FB |
| Manganese, Dissolved | 1.21 | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:06 | EPA 3005A | 97,6010C | FB |
| Mercury, Dissolved | ND | | mg/l | 0.0002 | -- | 1 | 12/02/16 09:54 | 12/05/16 19:17 | EPA 7470A | 97,7470A | EA |
| Selenium, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:06 | EPA 3005A | 97,6010C | FB |
| Silver, Dissolved | ND | | mg/l | 0.007 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:06 | EPA 3005A | 97,6010C | FB |
| Zinc, Dissolved | ND | | mg/l | 0.050 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:06 | EPA 3005A | 97,6010C | FB |

**Project Name:** EASTHAM LANDFILL
**Lab Number:** L1638614
**Project Number:** 2016-055
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-02
Client ID: MW-3D
Sample Location: EASTHAM, MA
Matrix: Water

Date Collected: 11/29/16 10:30
Date Received: 11/29/16
Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MCP Dissolved Metals - Mansfield Lab** | | | | | | | | | | | |
| Arsenic, Dissolved | 0.045 | | mg/l | 0.005 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:10 | EPA 3005A | 97,6010C | FB |
| Barium, Dissolved | 0.044 | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:10 | EPA 3005A | 97,6010C | FB |
| Cadmium, Dissolved | ND | | mg/l | 0.004 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:10 | EPA 3005A | 97,6010C | FB |
| Chromium, Dissolved | ND | | mg/l | 0.01 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:10 | EPA 3005A | 97,6010C | FB |
| Copper, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:10 | EPA 3005A | 97,6010C | FB |
| Iron, Dissolved | 22 | | mg/l | 0.05 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:10 | EPA 3005A | 97,6010C | FB |
| Lead, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:10 | EPA 3005A | 97,6010C | FB |
| Manganese, Dissolved | 1.23 | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:10 | EPA 3005A | 97,6010C | FB |
| Mercury, Dissolved | ND | | mg/l | 0.0002 | -- | 1 | 12/02/16 09:54 | 12/05/16 19:19 | EPA 7470A | 97,7470A | EA |
| Selenium, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:10 | EPA 3005A | 97,6010C | FB |
| Silver, Dissolved | ND | | mg/l | 0.007 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:10 | EPA 3005A | 97,6010C | FB |
| Zinc, Dissolved | ND | | mg/l | 0.050 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:10 | EPA 3005A | 97,6010C | FB |

**Project Name:** EASTHAM LANDFILL
**Lab Number:** L1638614
**Project Number:** 2016-055
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-03
Client ID: MW-2S
Sample Location: EASTHAM, MA
Matrix: Water
Date Collected: 11/29/16 09:45
Date Received: 11/29/16
Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MCP Dissolved Metals - Mansfield Lab** | | | | | | | | | | | |
| Arsenic, Dissolved | ND | | mg/l | 0.005 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:52 | EPA 3005A | 97,6010C | FB |
| Barium, Dissolved | 0.011 | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:52 | EPA 3005A | 97,6010C | FB |
| Cadmium, Dissolved | ND | | mg/l | 0.004 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:52 | EPA 3005A | 97,6010C | FB |
| Chromium, Dissolved | ND | | mg/l | 0.01 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:52 | EPA 3005A | 97,6010C | FB |
| Copper, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:52 | EPA 3005A | 97,6010C | FB |
| Iron, Dissolved | 0.42 | | mg/l | 0.05 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:52 | EPA 3005A | 97,6010C | FB |
| Lead, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:52 | EPA 3005A | 97,6010C | FB |
| Manganese, Dissolved | 0.381 | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:52 | EPA 3005A | 97,6010C | FB |
| Mercury, Dissolved | ND | | mg/l | 0.0002 | -- | 1 | 12/02/16 09:54 | 12/05/16 19:21 | EPA 7470A | 97,7470A | EA |
| Selenium, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:52 | EPA 3005A | 97,6010C | FB |
| Silver, Dissolved | ND | | mg/l | 0.007 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:52 | EPA 3005A | 97,6010C | FB |
| Zinc, Dissolved | ND | | mg/l | 0.050 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:52 | EPA 3005A | 97,6010C | FB |

**Project Name:** EASTHAM LANDFILL
**Lab Number:** L1638614
**Project Number:** 2016-055
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-04
Client ID: MW-4S
Sample Location: EASTHAM, MA
Matrix: Water
Date Collected: 11/29/16 11:30
Date Received: 11/29/16
Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MCP Dissolved Metals - Mansfield Lab** | | | | | | | | | | | |
| Arsenic, Dissolved | ND | | mg/l | 0.005 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:56 | EPA 3005A | 97,6010C | FB |
| Barium, Dissolved | 0.028 | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:56 | EPA 3005A | 97,6010C | FB |
| Cadmium, Dissolved | ND | | mg/l | 0.004 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:56 | EPA 3005A | 97,6010C | FB |
| Chromium, Dissolved | ND | | mg/l | 0.01 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:56 | EPA 3005A | 97,6010C | FB |
| Copper, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:56 | EPA 3005A | 97,6010C | FB |
| Iron, Dissolved | 2.1 | | mg/l | 0.05 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:56 | EPA 3005A | 97,6010C | FB |
| Lead, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:56 | EPA 3005A | 97,6010C | FB |
| Manganese, Dissolved | 4.66 | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:56 | EPA 3005A | 97,6010C | FB |
| Mercury, Dissolved | ND | | mg/l | 0.0002 | -- | 1 | 12/02/16 09:54 | 12/05/16 19:23 | EPA 7470A | 97,7470A | EA |
| Selenium, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:56 | EPA 3005A | 97,6010C | FB |
| Silver, Dissolved | ND | | mg/l | 0.007 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:56 | EPA 3005A | 97,6010C | FB |
| Zinc, Dissolved | ND | | mg/l | 0.050 | -- | 1 | 12/02/16 07:50 | 12/03/16 01:56 | EPA 3005A | 97,6010C | FB |

**Project Name:** EASTHAM LANDFILL
**Lab Number:** L1638614
**Project Number:** 2016-055
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-05
Client ID: MW-5S
Sample Location: EASTHAM, MA
Matrix: Water
Date Collected: 11/29/16 12:00
Date Received: 11/29/16
Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **MCP Dissolved Metals - Mansfield Lab** | | | | | | | | | | | |
| Arsenic, Dissolved | ND | | mg/l | 0.005 | -- | 1 | 12/02/16 07:50 | 12/03/16 02:01 | EPA 3005A | 97,6010C | FB |
| Barium, Dissolved | 0.037 | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 02:01 | EPA 3005A | 97,6010C | FB |
| Cadmium, Dissolved | ND | | mg/l | 0.004 | -- | 1 | 12/02/16 07:50 | 12/03/16 02:01 | EPA 3005A | 97,6010C | FB |
| Chromium, Dissolved | ND | | mg/l | 0.01 | -- | 1 | 12/02/16 07:50 | 12/03/16 02:01 | EPA 3005A | 97,6010C | FB |
| Copper, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 02:01 | EPA 3005A | 97,6010C | FB |
| Iron, Dissolved | 7.8 | | mg/l | 0.05 | -- | 1 | 12/02/16 07:50 | 12/03/16 02:01 | EPA 3005A | 97,6010C | FB |
| Lead, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 02:01 | EPA 3005A | 97,6010C | FB |
| Manganese, Dissolved | 2.81 | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 02:01 | EPA 3005A | 97,6010C | FB |
| Mercury, Dissolved | ND | | mg/l | 0.0002 | -- | 1 | 12/02/16 09:54 | 12/05/16 19:25 | EPA 7470A | 97,7470A | EA |
| Selenium, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/03/16 02:01 | EPA 3005A | 97,6010C | FB |
| Silver, Dissolved | ND | | mg/l | 0.007 | -- | 1 | 12/02/16 07:50 | 12/03/16 02:01 | EPA 3005A | 97,6010C | FB |
| Zinc, Dissolved | ND | | mg/l | 0.050 | -- | 1 | 12/02/16 07:50 | 12/03/16 02:01 | EPA 3005A | 97,6010C | FB |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

# Method Blank Analysis
# Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| MCP Dissolved Metals - Mansfield Lab for sample(s): 01-05 Batch: WG957431-1 | | | | | | | | | | |
| Arsenic, Dissolved | ND | | mg/l | 0.005 | -- | 1 | 12/02/16 07:50 | 12/02/16 23:54 | 97,6010C | FB |
| Barium, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/02/16 23:54 | 97,6010C | FB |
| Cadmium, Dissolved | ND | | mg/l | 0.004 | -- | 1 | 12/02/16 07:50 | 12/02/16 23:54 | 97,6010C | FB |
| Chromium, Dissolved | ND | | mg/l | 0.01 | -- | 1 | 12/02/16 07:50 | 12/02/16 23:54 | 97,6010C | FB |
| Copper, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/02/16 23:54 | 97,6010C | FB |
| Iron, Dissolved | ND | | mg/l | 0.05 | -- | 1 | 12/02/16 07:50 | 12/02/16 23:54 | 97,6010C | FB |
| Lead, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/02/16 23:54 | 97,6010C | FB |
| Manganese, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/02/16 23:54 | 97,6010C | FB |
| Selenium, Dissolved | ND | | mg/l | 0.010 | -- | 1 | 12/02/16 07:50 | 12/02/16 23:54 | 97,6010C | FB |
| Silver, Dissolved | ND | | mg/l | 0.007 | -- | 1 | 12/02/16 07:50 | 12/02/16 23:54 | 97,6010C | FB |
| Zinc, Dissolved | ND | | mg/l | 0.050 | -- | 1 | 12/02/16 07:50 | 12/02/16 23:54 | 97,6010C | FB |

**Prep Information**

Digestion Method: EPA 3005A

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| MCP Dissolved Metals - Mansfield Lab for sample(s): 01-05 Batch: WG957482-1 | | | | | | | | | | |
| Mercury, Dissolved | ND | | mg/l | 0.0002 | -- | 1 | 12/02/16 09:54 | 12/05/16 19:12 | 97,7470A | EA |

**Prep Information**

Digestion Method: EPA 7470A

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** EASTHAM LANDFILL

**Project Number:** 2016-055

**Lab Number:** L1638614

**Report Date:** 12/06/16

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| MCP Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG957431-2 WG957431-3 | | | | | | | | |
| Arsenic, Dissolved | 102 | | 102 | | 80-120 | 0 | | 20 |
| Barium, Dissolved | 99 | | 98 | | 80-120 | 1 | | 20 |
| Cadmium, Dissolved | 102 | | 103 | | 80-120 | 1 | | 20 |
| Chromium, Dissolved | 95 | | 95 | | 80-120 | 0 | | 20 |
| Copper, Dissolved | 96 | | 96 | | 80-120 | 0 | | 20 |
| Iron, Dissolved | 93 | | 97 | | 80-120 | 4 | | 20 |
| Lead, Dissolved | 101 | | 100 | | 80-120 | 1 | | 20 |
| Manganese, Dissolved | 97 | | 97 | | 80-120 | 0 | | 20 |
| Selenium, Dissolved | 105 | | 108 | | 80-120 | 3 | | 20 |
| Silver, Dissolved | 99 | | 99 | | 80-120 | 0 | | 20 |
| Zinc, Dissolved | 97 | | 97 | | 80-120 | 0 | | 20 |
| MCP Dissolved Metals - Mansfield Lab Associated sample(s): 01-05 Batch: WG957482-2 WG957482-3 | | | | | | | | |
| Mercury, Dissolved | 97 | | 100 | | 80-120 | 3 | | 20 |

# INORGANICS
# &
# MISCELLANEOUS

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-01
Client ID: MW-3I
Sample Location: EASTHAM, MA
Matrix: Water
Date Collected: 11/29/16 10:30
Date Received: 11/29/16
Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **MCP General Chemistry - Westborough Lab** | | | | | | | | | | |
| Cyanide, Total | ND | | mg/l | 0.005 | -- | 1 | 12/01/16 09:50 | 12/01/16 16:20 | 97,9014 | JO |
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Alkalinity, Total | 156. | | mg CaCO3/L | 2.00 | NA | 1 | - | 11/30/16 09:13 | 121,2320B | AW |
| Solids, Total Dissolved | 130 | | mg/l | 20 | -- | 2 | - | 12/01/16 13:10 | 121,2540C | DW |
| Chloride | 10. | | mg/l | 1.0 | -- | 1 | - | 11/30/16 22:28 | 1,9251 | ML |
| pH (H) | 6.5 | | SU | - | NA | 1 | - | 11/30/16 01:18 | 1,9040C | MC |
| Nitrogen, Nitrate | 0.154 | | mg/l | 0.100 | -- | 1 | - | 11/30/16 21:12 | 121,4500NO3-F | MR |
| Sulfate | 40. | | mg/l | 10 | -- | 1 | 11/30/16 16:41 | 11/30/16 16:41 | 1,9038 | BR |
| Chemical Oxygen Demand | 26. | | mg/l | 20 | -- | 1 | 12/01/16 18:30 | 12/01/16 20:38 | 121,5220D | TL |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-02
Client ID: MW-3D
Sample Location: EASTHAM, MA
Matrix: Water
Date Collected: 11/29/16 10:30
Date Received: 11/29/16
Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **MCP General Chemistry - Westborough Lab** | | | | | | | | | | |
| Cyanide, Total | ND | | mg/l | 0.005 | -- | 1 | 12/01/16 09:50 | 12/01/16 16:21 | 97,9014 | JO |
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Alkalinity, Total | 557. | | mg CaCO3/L | 2.00 | NA | 1 | - | 11/30/16 09:13 | 121,2320B | AW |
| Solids, Total Dissolved | 460 | | mg/l | 20 | -- | 2 | - | 12/01/16 13:10 | 121,2540C | DW |
| Chloride | 56. | | mg/l | 1.0 | -- | 1 | - | 11/30/16 22:03 | 1,9251 | ML |
| pH (H) | 6.7 | | SU | - | NA | 1 | - | 11/30/16 01:18 | 1,9040C | MC |
| Nitrogen, Nitrate | ND | | mg/l | 0.100 | -- | 1 | - | 11/30/16 21:14 | 121,4500NO3-F | MR |
| Sulfate | 56. | | mg/l | 20 | -- | 2 | 11/30/16 16:41 | 11/30/16 16:41 | 1,9038 | BR |
| Chemical Oxygen Demand | 52. | | mg/l | 20 | -- | 1 | 12/01/16 18:30 | 12/01/16 20:39 | 121,5220D | TL |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-03
Client ID: MW-2S
Sample Location: EASTHAM, MA
Matrix: Water
Date Collected: 11/29/16 09:45
Date Received: 11/29/16
Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **MCP General Chemistry - Westborough Lab** | | | | | | | | | | |
| Cyanide, Total | ND | | mg/l | 0.005 | -- | 1 | 12/01/16 09:50 | 12/01/16 16:22 | 97,9014 | JO |
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Alkalinity, Total | 121. | | mg CaCO3/L | 2.00 | NA | 1 | - | 11/30/16 09:13 | 121,2320B | AW |
| Solids, Total Dissolved | 150 | | mg/l | 10 | -- | 1 | - | 12/01/16 13:10 | 121,2540C | DW |
| Chloride | 22. | | mg/l | 1.0 | -- | 1 | - | 11/30/16 22:04 | 1,9251 | ML |
| pH (H) | 6.7 | | SU | - | NA | 1 | - | 11/30/16 01:18 | 1,9040C | MC |
| Nitrogen, Nitrate | ND | | mg/l | 0.100 | -- | 1 | - | 11/30/16 21:15 | 121,4500NO3-F | MR |
| Sulfate | 25. | | mg/l | 10 | -- | 1 | 11/30/16 16:41 | 11/30/16 16:41 | 1,9038 | BR |
| Chemical Oxygen Demand | 26. | | mg/l | 20 | -- | 1 | 12/01/16 18:30 | 12/01/16 20:39 | 121,5220D | TL |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-04
Client ID: MW-4S
Sample Location: EASTHAM, MA
Matrix: Water
Date Collected: 11/29/16 11:30
Date Received: 11/29/16
Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **MCP General Chemistry - Westborough Lab** | | | | | | | | | | |
| Cyanide, Total | ND | | mg/l | 0.005 | -- | 1 | 12/01/16 09:50 | 12/01/16 16:23 | 97,9014 | JO |
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Alkalinity, Total | 173. | | mg CaCO3/L | 2.00 | NA | 1 | - | 11/30/16 09:13 | 121,2320B | AW |
| Solids, Total Dissolved | 180 | | mg/l | 10 | -- | 1 | - | 12/01/16 13:10 | 121,2540C | DW |
| Chloride | 22. | | mg/l | 1.0 | -- | 1 | - | 11/30/16 22:05 | 1,9251 | ML |
| pH (H) | 6.2 | | SU | - | NA | 1 | - | 11/30/16 01:18 | 1,9040C | MC |
| Nitrogen, Nitrate | ND | | mg/l | 0.100 | -- | 1 | - | 11/30/16 21:16 | 121,4500NO3-F | MR |
| Sulfate | 20. | | mg/l | 10 | -- | 1 | 11/30/16 16:41 | 11/30/16 16:41 | 1,9038 | BR |
| Chemical Oxygen Demand | 26. | | mg/l | 20 | -- | 1 | 12/01/16 18:30 | 12/01/16 20:39 | 121,5220D | TL |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-05
Client ID: MW-5S
Sample Location: EASTHAM, MA
Matrix: Water
Date Collected: 11/29/16 12:00
Date Received: 11/29/16
Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **MCP General Chemistry - Westborough Lab** | | | | | | | | | | |
| Cyanide, Total | ND | | mg/l | 0.005 | -- | 1 | 12/01/16 09:50 | 12/01/16 16:33 | 97,9014 | JO |
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| Alkalinity, Total | 190. | | mg CaCO3/L | 2.00 | NA | 1 | - | 11/30/16 09:13 | 121,2320B | AW |
| Solids, Total Dissolved | 210 | | mg/l | 10 | -- | 1 | - | 12/01/16 13:10 | 121,2540C | DW |
| Chloride | 32. | | mg/l | 1.0 | -- | 1 | - | 11/30/16 22:06 | 1,9251 | ML |
| pH (H) | 6.5 | | SU | - | NA | 1 | - | 11/30/16 01:18 | 1,9040C | MC |
| Nitrogen, Nitrate | ND | | mg/l | 0.100 | -- | 1 | - | 11/30/16 21:17 | 121,4500NO3-F | MR |
| Sulfate | 22. | | mg/l | 10 | -- | 1 | 11/30/16 16:41 | 11/30/16 16:41 | 1,9038 | BR |
| Chemical Oxygen Demand | 33. | | mg/l | 20 | -- | 1 | 12/01/16 18:30 | 12/01/16 20:39 | 121,5220D | TL |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-06
Client ID: MW-8
Sample Location: EASTHAM, MA
Matrix: Water
Date Collected: 11/29/16 13:15
Date Received: 11/29/16
Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| pH (H) | 6.2 | | SU | - | NA | 1 | - | 11/30/16 01:18 | 1,9040C | MC |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

## SAMPLE RESULTS

Lab ID: L1638614-07
Client ID: DWP WELL
Sample Location: EASTHAM, MA
Matrix: Water
Date Collected: 11/29/16 12:45
Date Received: 11/29/16
Field Prep: None

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| **General Chemistry - Westborough Lab** | | | | | | | | | | |
| pH (H) | 6.1 | | SU | - | NA | 1 | - | 11/30/16 01:18 | 1,9040C | MC |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055
**Lab Number:** L1638614
**Report Date:** 12/06/16

# 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): 01-05 Batch: WG956668-1 | | | | | | | | | | |
| Alkalinity, Total | ND | | mg CaCO3/L | 2.00 | NA | 1 | - | 11/30/16 09:13 | 121,2320B | AW |
| General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG956739-1 | | | | | | | | | | |
| Sulfate | ND | | mg/l | 10 | -- | 1 | 11/30/16 16:41 | 11/30/16 16:41 | 1,9038 | BR |
| General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG956888-1 | | | | | | | | | | |
| Nitrogen, Nitrate | ND | | mg/l | 0.100 | -- | 1 | - | 11/30/16 21:58 | 121,4500NO3-F | MR |
| General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG956916-1 | | | | | | | | | | |
| Chloride | ND | | mg/l | 1.0 | -- | 1 | - | 11/30/16 21:59 | 1,9251 | ML |
| General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG957011-1 | | | | | | | | | | |
| Solids, Total Dissolved | ND | | mg/l | 10 | -- | 1 | - | 12/01/16 13:10 | 121,2540C | DW |
| MCP General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG957081-1 | | | | | | | | | | |
| Cyanide, Total | ND | | mg/l | 0.005 | -- | 1 | 12/01/16 09:50 | 12/01/16 15:55 | 97,9014 | JO |
| General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG957269-5 | | | | | | | | | | |
| Chemical Oxygen Demand | ND | | mg/l | 20 | -- | 1 | 12/01/16 18:30 | 12/01/16 20:38 | 121,5220D | TL |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055

**Lab Number:** L1638614
**Report Date:** 12/06/16

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG956544-1 | | | | | | | | |
| pH | 100 | | - | | 99-101 | - | | 5 |
| General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG956668-2 | | | | | | | | |
| Alkalinity, Total | 103 | | - | | 90-110 | - | | 10 |
| General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG956739-2 | | | | | | | | |
| Sulfate | 100 | | - | | 84-119 | - | | |
| General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG956888-2 | | | | | | | | |
| Nitrogen, Nitrate | 93 | | - | | 90-110 | - | | |
| General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG956916-2 | | | | | | | | |
| Chloride | 97 | | - | | 90-110 | - | | |
| General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG957011-2 | | | | | | | | |
| Solids, Total Dissolved | 92 | | - | | 80-120 | - | | |
| MCP General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG957081-2 WG957081-3 | | | | | | | | |
| Cyanide, Total | 101 | | 106 | | 80-120 | 5 | | 20 |

# Lab Control Sample Analysis

## Batch Quality Control

**Project Name:** EASTHAM LANDFILL

**Project Number:** 2016-055

**Lab Number:** L1638614

**Report Date:** 12/06/16

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|---|---|---|---|---|---|
| General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG957269-6 | | | | | |
| Chemical Oxygen Demand | 102 | - | 93-106 | - | |

# Matrix Spike Analysis
## Batch Quality Control

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055

**Lab Number:** L1638614
**Report Date:** 12/06/16

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG956739-4 QC Sample: L1638614-04 Client ID: MW-4S | | | | | | | | | | | | |
| Sulfate | 20 | 40 | 61 | 102 | | - | - | | 55-147 | - | | 14 |

# Lab Duplicate Analysis
## Batch Quality Control

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055

**Lab Number:** L1638614
**Report Date:** 12/06/16

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|---|---|---|---|---|---|
| General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG956739-3 QC Sample: L1638614-04 Client ID: MW-4S | | | | | | |
| Sulfate | 20 | 19 | mg/l | 5 | | 14 |

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055

**Lab Number:** L1638614
**Report Date:** 12/06/16

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

**Cooler Information Custody Seal**

| Cooler | |
|---|---|
| A | Absent |
| B | Absent |

**Container Information**

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|---|---|---|---|---|---|---|---|
| L1638614-01A | Vial HCl preserved | B | N/A | 2.5 | Y | Absent | MCP-8260-10(14) |
| L1638614-01B | Vial HCl preserved | B | N/A | 2.5 | Y | Absent | MCP-8260-10(14) |
| L1638614-01C | Vial HCl preserved | B | N/A | 2.5 | Y | Absent | MCP-8260-10(14) |
| L1638614-01D | Plastic 120ml HNO3 preserved Fil | B | <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) |
| L1638614-01E | Plastic 120ml H2SO4 preserved | B | <2 | 2.5 | Y | Absent | COD-5220(28) |
| L1638614-01F | Plastic 250ml NaOH preserved | B | >12 | 2.5 | Y | Absent | MCP-TCN9014-10(14) |
| L1638614-01G | Plastic 500ml unpreserved | B | 7 | 2.5 | Y | Absent | CL-9251(28),PH-9040(1),SO4-9038(28),NO3-4500(2),TDS-2540(7) |
| L1638614-01H | Amber 500ml unpreserved | B | 7 | 2.5 | Y | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1638614-01I | Amber 500ml unpreserved | B | 7 | 2.5 | Y | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1638614-01J | Plastic 250ml unpreserved w/No H | B | N/A | 2.5 | Y | Absent | ALK-T-2320(14) |
| L1638614-01K | Plastic 120ml unpreserved | B | 7 | 2.5 | Y | Absent | - |
| L1638614-02A | Vial HCl preserved | B | N/A | 2.5 | Y | Absent | MCP-8260-10(14) |
| L1638614-02B | Vial HCl preserved | B | N/A | 2.5 | Y | Absent | MCP-8260-10(14) |
| L1638614-02C | Vial HCl preserved | B | N/A | 2.5 | Y | Absent | MCP-8260-10(14) |
| L1638614-02D | Plastic 120ml HNO3 preserved Fil | B | <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) |

*Values in parentheses indicate holding time in days

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055

**Lab Number:** L1638614
**Report Date:** 12/06/16

## Container Information

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|---|---|---|---|---|---|---|---|
| L1638614-02E | Plastic 120ml H2SO4 preserved | B | <2 | 2.5 | Y | Absent | COD-5220(28) |
| L1638614-02F | Plastic 250ml NaOH preserved | B | >12 | 2.5 | Y | Absent | MCP-TCN9014-10(14) |
| L1638614-02G | Plastic 500ml unpreserved | B | 7 | 2.5 | Y | Absent | CL-9251(28),PH-9040(1),SO4-9038(28),NO3-4500(2),TDS-2540(7) |
| L1638614-02H | Amber 500ml unpreserved | B | 7 | 2.5 | Y | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1638614-02I | Amber 500ml unpreserved | B | 7 | 2.5 | Y | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1638614-02J | Plastic 250ml unpreserved w/No H | B | N/A | 2.5 | Y | Absent | ALK-T-2320(14) |
| L1638614-02K | Plastic 120ml unpreserved | B | 7 | 2.5 | Y | Absent | - |
| L1638614-03A | Vial HCl preserved | B | N/A | 2.5 | Y | Absent | MCP-8260-10(14) |
| L1638614-03B | Vial HCl preserved | B | N/A | 2.5 | Y | Absent | MCP-8260-10(14) |
| L1638614-03C | Vial HCl preserved | B | N/A | 2.5 | Y | Absent | MCP-8260-10(14) |
| L1638614-03D | Plastic 120ml HNO3 preserved Fil | B | <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) |
| L1638614-03E | Plastic 120ml H2SO4 preserved | B | <2 | 2.5 | Y | Absent | COD-5220(28) |
| L1638614-03F | Plastic 250ml NaOH preserved | B | >12 | 2.5 | Y | Absent | MCP-TCN9014-10(14) |
| L1638614-03G | Plastic 500ml unpreserved | B | 7 | 2.5 | Y | Absent | CL-9251(28),PH-9040(1),SO4-9038(28),NO3-4500(2),TDS-2540(7) |
| L1638614-03H | Amber 500ml unpreserved | B | 7 | 2.5 | Y | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1638614-03I | Amber 500ml unpreserved | B | 7 | 2.5 | Y | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1638614-03J | Plastic 250ml unpreserved w/No H | B | N/A | 2.5 | Y | Absent | ALK-T-2320(14) |
| L1638614-03K | Plastic 120ml unpreserved | B | 7 | 2.5 | Y | Absent | - |
| L1638614-04A | Vial HCl preserved | B | N/A | 2.5 | Y | Absent | MCP-8260-10(14) |
| L1638614-04B | Vial HCl preserved | B | N/A | 2.5 | Y | Absent | MCP-8260-10(14) |
| L1638614-04C | Vial HCl preserved | B | N/A | 2.5 | Y | Absent | MCP-8260-10(14) |
| L1638614-04D | Plastic 120ml HNO3 preserved Fil | B | <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) |

*Values in parentheses indicate holding time in days

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055

**Lab Number:** L1638614
**Report Date:** 12/06/16

## Container Information

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|---|---|---|---|---|---|---|---|
| L1638614-04E | Plastic 120ml H2SO4 preserved | B | <2 | 2.5 | Y | Absent | COD-5220(28) |
| L1638614-04F | Plastic 250ml NaOH preserved | B | >12 | 2.5 | Y | Absent | MCP-TCN9014-10(14) |
| L1638614-04G | Plastic 500ml unpreserved | B | 7 | 2.5 | Y | Absent | CL-9251(28),PH-9040(1),SO4-9038(28),NO3-4500(2),TDS-2540(7) |
| L1638614-04H | Amber 500ml unpreserved | B | 7 | 2.5 | Y | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1638614-04I | Amber 500ml unpreserved | B | 7 | 2.5 | Y | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1638614-04J | Plastic 250ml unpreserved w/No H | B | N/A | 2.5 | Y | Absent | ALK-T-2320(14) |
| L1638614-04K | Plastic 120ml unpreserved | B | 7 | 2.5 | Y | Absent | - |
| L1638614-05A | Vial HCl preserved | A | N/A | 3.1 | Y | Absent | MCP-8260-10(14) |
| L1638614-05B | Vial HCl preserved | A | N/A | 3.1 | Y | Absent | MCP-8260-10(14) |
| L1638614-05C | Vial HCl preserved | A | N/A | 3.1 | Y | Absent | MCP-8260-10(14) |
| L1638614-05D | Plastic 120ml HNO3 preserved Fil | A | <2 | 3.1 | 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) |
| L1638614-05E | Plastic 120ml H2SO4 preserved | A | <2 | 3.1 | Y | Absent | COD-5220(28) |
| L1638614-05F | Plastic 250ml NaOH preserved | A | >12 | 3.1 | Y | Absent | MCP-TCN9014-10(14) |
| L1638614-05G | Plastic 500ml unpreserved | A | 7 | 3.1 | Y | Absent | CL-9251(28),PH-9040(1),SO4-9038(28),NO3-4500(2),TDS-2540(7) |
| L1638614-05H | Amber 500ml unpreserved | A | 7 | 3.1 | Y | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1638614-05I | Amber 500ml unpreserved | A | 7 | 3.1 | Y | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1638614-05J | Plastic 250ml unpreserved w/No H | A | N/A | 3.1 | Y | Absent | ALK-T-2320(14) |
| L1638614-05K | Plastic 120ml unpreserved | A | 7 | 3.1 | Y | Absent | - |
| L1638614-06A | Vial HCl preserved | A | N/A | 3.1 | Y | Absent | MCP-8260-10(14) |
| L1638614-06B | Vial HCl preserved | A | N/A | 3.1 | Y | Absent | MCP-8260-10(14) |
| L1638614-06C | Vial HCl preserved | A | N/A | 3.1 | Y | Absent | MCP-8260-10(14) |
| L1638614-06D | Plastic 120ml HNO3 preserved Fil | A | <2 | 3.1 | Y | Absent | HOLD-METAL-DISSOLVED(180) |
| L1638614-06E | Plastic 120ml H2SO4 preserved | A | <2 | 3.1 | Y | Absent | HOLD-WETCHEM(0) |
| L1638614-06F | Plastic 250ml NaOH preserved | A | >12 | 3.1 | Y | Absent | HOLD-WETCHEM(0) |
| L1638614-06G | Plastic 500ml unpreserved | A | 7 | 3.1 | Y | Absent | PH-9040(1) |
| L1638614-06H | Amber 500ml unpreserved | A | 7 | 3.1 | Y | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1638614-06I | Amber 500ml unpreserved | A | 7 | 3.1 | Y | Absent | A2-MCP-14DX-SIM-PPB(7) |

*Values in parentheses indicate holding time in days

**Project Name:** EASTHAM LANDFILL
**Project Number:** 2016-055

**Lab Number:** L1638614
**Report Date:** 12/06/16

**Container Information**

| Container ID | Container Type | Cooler | pH | Temp deg C | Pres | Seal | Analysis(*) |
|---|---|---|---|---|---|---|---|
| L1638614-06J | Plastic 250ml unpreserved w/No H | A | N/A | 3.1 | Y | Absent | HOLD-WETCHEM() |
| L1638614-06K | Plastic 120ml unpreserved | A | 7 | 3.1 | Y | Absent | - |
| L1638614-07A | Vial HCl preserved | A | N/A | 3.1 | Y | Absent | MCP-8260-10(14) |
| L1638614-07B | Vial HCl preserved | A | N/A | 3.1 | Y | Absent | MCP-8260-10(14) |
| L1638614-07C | Vial HCl preserved | A | N/A | 3.1 | Y | Absent | MCP-8260-10(14) |
| L1638614-07D | Plastic 120ml HNO3 preserved Fil | A | <2 | 3.1 | Y | Absent | HOLD-METAL-DISSOLVED(180) |
| L1638614-07E | Plastic 120ml H2SO4 preserved | A | <2 | 3.1 | Y | Absent | HOLD-WETCHEM(0) |
| L1638614-07F | Plastic 250ml NaOH preserved | A | >12 | 3.1 | Y | Absent | HOLD-WETCHEM(0) |
| L1638614-07G | Plastic 500ml unpreserved | A | 7 | 3.1 | Y | Absent | PH-9040(1) |
| L1638614-07H | Amber 500ml unpreserved | A | 7 | 3.1 | Y | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1638614-07I | Amber 500ml unpreserved | A | 7 | 3.1 | Y | Absent | A2-MCP-14DX-SIM-PPB(7) |
| L1638614-07J | Plastic 250ml unpreserved w/No H | A | N/A | 3.1 | Y | Absent | HOLD-WETCHEM() |
| L1638614-07K | Plastic 120ml unpreserved | A | 7 | 3.1 | Y | Absent | - |
| L1638614-08A | Vial HCl preserved | B | N/A | 2.5 | Y | Absent | HOLD-8260(14) |
| L1638614-08B | Vial HCl preserved | B | N/A | 2.5 | Y | Absent | HOLD-8260(14) |

*Values in parentheses indicate holding time in days

| | | | |
|---|---|---|---|
| **Project Name:** | EASTHAM LANDFILL | **Lab Number:** | L1638614 |
| **Project Number:** | 2016-055 | **Report Date:** | 12/06/16 |

## 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. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| 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. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| 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 |

*Report Format:* Data Usability Report

| | | | |
|---|---|---|---|
| **Project Name:** | EASTHAM LANDFILL | **Lab Number:** | L1638614 |
| **Project Number:** | 2016-055 | **Report Date:** | 12/06/16 |

***Data Qualifiers***

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

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

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

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

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

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

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

**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. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

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

*Report Format:* Data Usability Report

| | | | |
|---|---|---|---|
| **Project Name:** | EASTHAM LANDFILL | **Lab Number:** | L1638614 |
| **Project Number:** | 2016-055 | **Report Date:** | 12/06/16 |

## REFERENCES


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

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.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.


## LIMITATION OF LIABILITIES

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

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

# Certification Information

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

**Westborough Facility**
**EPA 624:** m/p-xylene, o-xylene
**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
**EPA 8270D:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
**EPA 300:** DW: Bromide
**EPA 6860:** NPW and SCM: Perchlorate
**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation
**EPA 9012B:** NPW: Total Cyanide
**EPA 9050A:** NPW: Specific Conductance
**SM3500:** NPW: Ferrous Iron
**SM4500**: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
**SM5310C:** DW: Dissolved Organic Carbon

**Mansfield Facility**
**SM 2540D:** TSS
**EPA 3005A** NPW
**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
**Biological Tissue Matrix:** ***EPA 3050B***

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

**Westborough Facility:**

***Drinking Water***
**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, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
**EPA 332**: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
**Microbiology**: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

***Non-Potable Water***
**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH**, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
**EPA 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**.

**Mansfield Facility:**

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

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

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

# CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
World Class Chemistry

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193
Mansfield, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 11/29/16

ALPHA Job #: L1638614

## Client Information

Client: Environmental Strategies & Managemen
Address: 273 West Main Street
Norton, MA 02703
Phone: 508-226-1800
Fax: 508-226-1811
Email: lflynn@esm-inc.com

☒ These samples have been Previously analyzed by Alpha

## Project Information

Project Name: Eastham Landfill
Project Location: Eastham MA
Project #: 2016-055
Project Manager: Lisa Flynn
ALPHA Quote #:

## Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

## Report Information Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

## Billing Information

☐ Same as Client info PO #:

## Regulatory Requirements/Report Limits

| State/Fed Program | Criteria |
|---|---|
| B8260 & 8270 & Metals - MCP | 0.15 ug/l for 1,4 dioxane, GW-1 |

## MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

Samples collected by BCHD - Ship coolers to Lynn Mulkeen at Barnstable County
Results emailed to Lisa Flynn at ES&M lflynn@esm-inc.com
Invoices to Eastham Board of Health

## ANALYSIS

SAMPLE HANDLING
*Filtration*
☐ Done
☐ Not Needed
☐ Lab to do
*Preservation*
☒ Lab to do
*(Please specify below)*

TOTAL # BOTTLES

Sample Specific Comments

| ALPHA Lab ID (Lab Use Only) | Sample ID | Collection Date | Collection Time | Sample Matrix | Sampler's Initials | 1,4 DIOXANE BY 8270 SIM | VOCS BY 8260 | dissolved metals: As Ba,Cd,Cr,Cu,Fe, - Pb, Mn, Hg, Se, Ag, Zn | Nitrate as Nitrogen,, Alkalinity | Chloride, Sulfate | Total dissolved solids | COD | Cyanide | | | | Sample Specific Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1638614-01 | MW 3I | 11/29/16 | 1030 | GW | LKM | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☐ | ☐ | ☐ | FILTERED; pH needed |
| -02 | MW 3D | | 10:30 | GW | | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☐ | ☐ | ☐ | |
| -03 | MW 2S | | 945 | GW | | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☐ | ☐ | ☐ | |
| -04 | MW 4S | | 1130 | gw | | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☐ | ☐ | ☐ | |
| -05 | MW 5S | | 1200 | gw | | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☐ | ☐ | ☐ | |
| -06 | MW 8 | | 1315 | gw | | ☒ | ☒ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| -07 | DPW Well | | 1245 | gw | | ☒ | ☒ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | TOTAL |
| -08 | tripblank | | | | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| | | | | | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |
| | | | | | | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Container Type | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Preservative | - | - | - | - | - | - | - | - | - | - | - | - | - |

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

FORM NO: 01-01(I) (rev. 5-JAN-12)

| Relinquished By: | Date/Time | Received By: | Date/Time |
|---|---|---|---|
| LK Mulkeen | 11/29/16 | | 11/29/16 1530 |
| | 11/29/16 1702 | | 11/29/16 1702 |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

# Method Blank Summary
# Form 4

| | | | |
|---|---|---|---|
| **Client** | : Environmental Strategies & Mgmt. | **Lab Number** | : L1638614 |
| **Project Name** | : EASTHAM LANDFILL | **Project Number** | : 2016-055 |
| **Lab Sample ID** | : WG956623-10 | **Lab File ID** | : VJ161201B11 |
| **Instrument ID** | : JACK | | |
| **Matrix** | : WATER | **Analysis Date** | : 12/01/16 09:40 |

| Client Sample No. | Lab Sample ID | Analysis Date |
|---|---|---|
| WG956623-8LCS | WG956623-8 | 12/01/16 08:00 |
| WG956623-9LCSD | WG956623-9 | 12/01/16 08:34 |
| DWP WELL | L1638614-07 | 12/01/16 13:33 |

# Method Blank Summary
# Form 4

| | | | |
|---|---|---|---|
| **Client** | : Environmental Strategies & Mgmt. | **Lab Number** | : L1638614 |
| **Project Name** | : EASTHAM LANDFILL | **Project Number** | : 2016-055 |
| **Lab Sample ID** | : WG957329-5 | **Lab File ID** | : V16161130A05 |
| **Instrument ID** | : VOA116 | | |
| **Matrix** | : WATER | **Analysis Date** | : 12/01/16 09:41 |

| Client Sample No. | Lab Sample ID | Analysis Date |
|---|---|---|
| WG957329-3LCS | WG957329-3 | 12/01/16 08:27 |
| WG957329-4LCSD | WG957329-4 | 12/01/16 08:52 |
| MW-3I | L1638614-01 | 12/01/16 17:39 |
| MW-3D | L1638614-02 | 12/01/16 18:04 |
| MW-2S | L1638614-03 | 12/01/16 18:29 |
| MW-4S | L1638614-04 | 12/01/16 18:54 |

# Method Blank Summary
# Form 4

| | | | |
|---|---|---|---|
| **Client** | : Environmental Strategies & Mgmt. | **Lab Number** | : L1638614 |
| **Project Name** | : EASTHAM LANDFILL | **Project Number** | : 2016-055 |
| **Lab Sample ID** | : WG957909-5 | **Lab File ID** | : V16161202A05 |
| **Instrument ID** | : VOA116 | | |
| **Matrix** | : WATER | **Analysis Date** | : 12/02/16 11:59 |

| Client Sample No. | Lab Sample ID | Analysis Date |
|---|---|---|
| WG957909-3LCS | WG957909-3 | 12/02/16 10:44 |
| WG957909-4LCSD | WG957909-4 | 12/02/16 11:09 |
| MW-5S | L1638614-05 | 12/02/16 15:21 |
| MW-8 | L1638614-06 | 12/02/16 15:46 |

# Continuing Calibration
# Form 7

| | | | | |
|---|---|---|---|---|
| Client | : Environmental Strategies & Mgmt. | Lab Number | : L1638614 | |
| Project Name | : EASTHAM LANDFILL | Project Number | : 2016-055 | |
| Instrument ID | : JACK | Calibration Date | : 12/01/16 08:00 | |
| Lab File ID | : VJ161201B05 | Init. Calib. Date(s) | : 10/24/16 | 10/24/16 |
| Sample No | : WG956623-7 | Init. Calib. Times | : 08:57 | 14:31 |
| Channel | : | | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| Fluorobenzene | 1 | 1 | - | 0 | 20 | 64 | 0 |
| Dichlorodifluoromethane | 0.273 | 0.276 | - | -1.1 | 20 | 63 | 0 |
| Chloromethane | 0.484 | 0.365 | - | 24.6* | 20 | 49 | 0 |
| Vinyl chloride | 0.468 | 0.378 | - | 19.2 | 20 | 53 | 0 |
| Bromomethane | 10 | 8.046 | - | 19.5 | 20 | 55 | 0 |
| Chloroethane | 0.247 | 0.215 | - | 13 | 20 | 53 | 0 |
| Trichlorofluoromethane | 0.405 | 0.481 | - | -18.8 | 20 | 71 | 0 |
| Ethyl ether | 0.142 | 0.157 | - | -10.6 | 20 | 68 | 0 |
| 1,1-Dichloroethene | 0.316 | 0.314 | - | 0.6 | 20 | 63 | 0 |
| Carbon disulfide | 1.088 | 0.883 | - | 18.8 | 20 | 52 | 0 |
| Methylene chloride | 0.365 | 0.351 | - | 3.8 | 20 | 62 | 0 |
| Acetone | 10 | 10.457 | - | -4.6 | 20 | 60 | .02 |
| trans-1,2-Dichloroethene | 0.35 | 0.438 | - | -25.1* | 20 | 80 | 0 |
| Methyl tert-butyl ether | 0.667 | 0.879 | - | -31.8* | 20 | 85 | 0 |
| Diisopropyl ether | 1.127 | 1.181 | - | -4.8 | 20 | 66 | 0 |
| 1,1-Dichloroethane | 0.682 | 0.703 | - | -3.1 | 20 | 66 | 0 |
| Ethyl tert-butyl ether | 0.912 | 0.919 | - | -0.8 | 20 | 64 | 0 |
| cis-1,2-Dichloroethene | 0.376 | 0.451 | - | -19.9 | 20 | 73 | 0 |
| 2,2-Dichloropropane | 0.541 | 0.556 | - | -2.8 | 20 | 64 | 0 |
| Bromochloromethane | 0.152 | 0.18 | - | -18.4 | 20 | 79 | 0 |
| Chloroform | 0.622 | 0.675 | - | -8.5 | 20 | 67 | 0 |
| Carbon tetrachloride | 0.413 | 0.48 | - | -16.2 | 20 | 75 | 0 |
| Tetrahydrofuran | 0.069 | 0.054 | - | 21.7* | 20 | 48 | 0 |
| Dibromofluoromethane | 0.205 | 0.223 | - | -8.8 | 20 | 69 | 0 |
| 1,1,1-Trichloroethane | 0.529 | 0.585 | - | -10.6 | 20 | 71 | 0 |
| 2-Butanone | 0.091 | 0.081* | - | 11 | 20 | 56 | 0 |
| 1,1-Dichloropropene | 0.529 | 0.522 | - | 1.3 | 20 | 63 | 0 |
| Benzene | 1.665 | 1.703 | - | -2.3 | 20 | 66 | 0 |
| tert-Amyl methyl ether | 0.765 | 0.826 | - | -8 | 20 | 70 | 0 |
| 1,2-Dichloroethane-d4 | 0.22 | 0.215 | - | 2.3 | 20 | 65 | 0 |
| 1,2-Dichloroethane | 0.364 | 0.41 | - | -12.6 | 20 | 72 | 0 |
| Trichloroethene | 0.394 | 0.429 | - | -8.9 | 20 | 70 | 0 |
| Dibromomethane | 0.163 | 0.185 | - | -13.5 | 20 | 78 | 0 |
| 1,2-Dichloropropane | 0.407 | 0.37 | - | 9.1 | 20 | 58 | 0 |
| Bromodichloromethane | 0.444 | 0.463 | - | -4.3 | 20 | 67 | 0 |
| 1,4-Dioxane | 0.00227 | 0.00334* | - | -47.1* | 20 | 91 | 0 |
| cis-1,3-Dichloropropene | 0.606 | 0.57 | - | 5.9 | 20 | 63 | 0 |
| Chlorobenzene-d5 | 1 | 1 | - | 0 | 20 | 76 | 0 |
| Toluene-d8 | 1.193 | 1.044 | - | 12.5 | 20 | 67 | 0 |
| Toluene | 1.243 | 1.189 | - | 4.3 | 20 | 75 | 0 |
| 4-Methyl-2-pentanone | 0.091 | 0.075* | - | 17.6 | 20 | 67 | 0 |
| Tetrachloroethene | 0.512 | 0.557 | - | -8.8 | 20 | 83 | 0 |
| trans-1,3-Dichloropropene | 0.516 | 0.432 | - | 16.3 | 20 | 67 | 0 |
| 1,1,2-Trichloroethane | 0.259 | 0.252 | - | 2.7 | 20 | 75 | 0 |
| Chlorodibromomethane | 0.324 | 0.349 | - | -7.7 | 20 | 86 | 0 |

* Value outside of QC limits.

# Continuing Calibration
# Form 7

| | | | | |
|---|---|---|---|---|
| **Client** | : Environmental Strategies & Mgmt. | **Lab Number** | : L1638614 | |
| **Project Name** | : EASTHAM LANDFILL | **Project Number** | : 2016-055 | |
| **Instrument ID** | : JACK | **Calibration Date** | : 12/01/16 08:00 | |
| **Lab File ID** | : VJ161201B05 | **Init. Calib. Date(s)** | : 10/24/16 | 10/24/16 |
| **Sample No** | : WG956623-7 | **Init. Calib. Times** | : 08:57 | 14:31 |
| **Channel** | : | | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1,3-Dichloropropane | 0.547 | 0.488 | - | 10.8 | 20 | 71 | 0 |
| 1,2-Dibromoethane | 0.284 | 0.28 | - | 1.4 | 20 | 78 | 0 |
| 2-Hexanone | 0.161 | 0.103 | - | 36* | 20 | 51 | 0 |
| Chlorobenzene | 1.393 | 1.398 | - | -0.4 | 20 | 78 | 0 |
| Ethylbenzene | 2.686 | 2.424 | - | 9.8 | 20 | 71 | 0 |
| 1,1,1,2-Tetrachloroethane | 0.419 | 0.44 | - | -5 | 20 | 84 | 0 |
| p/m Xylene | 1.055 | 1.032 | - | 2.2 | 20 | 76 | 0 |
| o Xylene | 1.035 | 0.999 | - | 3.5 | 20 | 75 | 0 |
| Styrene | 1.739 | 1.676 | - | 3.6 | 20 | 76 | 0 |
| 1,4-Dichlorobenzene-d4 | 1 | 1 | - | 0 | 20 | 95 | 0 |
| Bromoform | 0.351 | 0.322 | - | 8.3 | 20 | 95 | 0 |
| Isopropylbenzene | 4.8 | 3.904 | - | 18.7 | 20 | 75 | 0 |
| 4-Bromofluorobenzene | 0.902 | 0.747 | - | 17.2 | 20 | 79 | 0 |
| Bromobenzene | 1.005 | 0.9 | - | 10.4 | 20 | 87 | 0 |
| n-Propylbenzene | 5.759 | 4.564 | - | 20.8* | 20 | 74 | 0 |
| 1,1,2,2-Tetrachloroethane | 0.618 | 0.534 | - | 13.6 | 20 | 76 | 0 |
| 2-Chlorotoluene | 3.729 | 2.964 | - | 20.5* | 20 | 74 | 0 |
| 1,3,5-Trimethylbenzene | 3.792 | 3.161 | - | 16.6 | 20 | 79 | 0 |
| 1,2,3-Trichloropropane | 0.497 | 0.417 | - | 16.1 | 20 | 77 | 0 |
| 4-Chlorotoluene | 3.337 | 2.651 | - | 20.6* | 20 | 75 | 0 |
| tert-Butylbenzene | 3.308 | 2.78 | - | 16 | 20 | 80 | 0 |
| 1,2,4-Trimethylbenzene | 3.759 | 3.194 | - | 15 | 20 | 79 | 0 |
| sec-Butylbenzene | 4.834 | 3.945 | - | 18.4 | 20 | 78 | 0 |
| p-Isopropyltoluene | 3.952 | 3.472 | - | 12.1 | 20 | 83 | 0 |
| 1,3-Dichlorobenzene | 2.031 | 1.922 | - | 5.4 | 20 | 89 | 0 |
| 1,4-Dichlorobenzene | 1.981 | 1.81 | - | 8.6 | 20 | 88 | 0 |
| n-Butylbenzene | 3.808 | 3.254 | - | 14.5 | 20 | 73 | 0 |
| 1,2-Dichlorobenzene | 1.758 | 1.755 | - | 0.2 | 20 | 92 | 0 |
| 1,2-Dibromo-3-chloropropan | 0.088 | 0.089 | - | -1.1 | 20 | 97 | 0 |
| Hexachlorobutadiene | 0.427 | 0.431 | - | -0.9 | 20 | 88 | 0 |
| 1,2,4-Trichlorobenzene | 0.971 | 0.953 | - | 1.9 | 20 | 87 | -.01 |
| Naphthalene | 1.847 | 1.761 | - | 4.7 | 20 | 85 | -.02 |
| 1,2,3-Trichlorobenzene | 0.78 | 0.766 | - | 1.8 | 20 | 91 | 0 |

* Value outside of QC limits.

# Continuing Calibration
# Form 7

| | | | | |
|---|---|---|---|---|
| Client | : Environmental Strategies & Mgmt. | Lab Number | : L1638614 | |
| Project Name | : EASTHAM LANDFILL | Project Number | : 2016-055 | |
| Instrument ID | : VOA116 | Calibration Date | : 12/01/16 08:27 | |
| Lab File ID | : V16161130A02 | Init. Calib. Date(s) | : 11/30/16 | 11/30/16 |
| Sample No | : WG957329-2 | Init. Calib. Times | : 07:23 | 10:17 |
| Channel | : | | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| Fluorobenzene | 1 | 1 | - | 0 | 20 | 88 | 0 |
| Dichlorodifluoromethane | 0.369 | 0.415 | - | -12.5 | 20 | 103 | 0 |
| Chloromethane | 0.54 | 0.584 | - | -8.1 | 20 | 96 | 0 |
| Vinyl chloride | 0.568 | 0.665 | - | -17.1 | 20 | 104 | 0 |
| Bromomethane | 0.238 | 0.31 | - | -30.3* | 20 | 125 | 0 |
| Chloroethane | 0.32 | 0.372 | - | -16.2 | 20 | 104 | 0 |
| Trichlorofluoromethane | 0.575 | 0.679 | - | -18.1 | 20 | 108 | 0 |
| Ethyl ether | 0.169 | 0.184 | - | -8.9 | 20 | 102 | 0 |
| 1,1-Dichloroethene | 0.359 | 0.377 | - | -5 | 20 | 95 | 0 |
| Carbon disulfide | 1.162 | 1.331 | - | -14.5 | 20 | 102 | 0 |
| Methylene chloride | 0.406 | 0.406 | - | 0 | 20 | 93 | 0 |
| Acetone | 10 | 12.013 | - | -20.1* | 20 | 113 | 0 |
| trans-1,2-Dichloroethene | 0.396 | 0.42 | - | -6.1 | 20 | 93 | 0 |
| Methyl tert-butyl ether | 0.833 | 0.872 | - | -4.7 | 20 | 92 | 0 |
| Diisopropyl ether | 1.404 | 1.491 | - | -6.2 | 20 | 94 | 0 |
| 1,1-Dichloroethane | 0.827 | 0.901 | - | -8.9 | 20 | 95 | 0 |
| Ethyl tert-butyl ether | 1.258 | 1.334 | - | -6 | 20 | 94 | 0 |
| cis-1,2-Dichloroethene | 0.426 | 0.45 | - | -5.6 | 20 | 95 | 0 |
| 2,2-Dichloropropane | 0.64 | 0.713 | - | -11.4 | 20 | 99 | .01 |
| Bromochloromethane | 0.173 | 0.183 | - | -5.8 | 20 | 92 | 0 |
| Chloroform | 0.707 | 0.761 | - | -7.6 | 20 | 95 | 0 |
| Carbon tetrachloride | 0.611 | 0.687 | - | -12.4 | 20 | 102 | 0 |
| Tetrahydrofuran | 10 | 9.477 | - | 5.2 | 20 | 77 | -.01 |
| Dibromofluoromethane | 0.437 | 0.46 | - | -5.3 | 20 | 94 | 0 |
| 1,1,1-Trichloroethane | 0.661 | 0.722 | - | -9.2 | 20 | 99 | 0 |
| 2-Butanone | 0.097 | 0.092* | - | 5.2 | 20 | 91 | 0 |
| 1,1-Dichloropropene | 0.55 | 0.602 | - | -9.5 | 20 | 98 | .01 |
| Benzene | 1.597 | 1.713 | - | -7.3 | 20 | 94 | 0 |
| tert-Amyl methyl ether | 0.892 | 0.927 | - | -3.9 | 20 | 93 | 0 |
| 1,2-Dichloroethane-d4 | 0.5 | 0.533 | - | -6.6 | 20 | 96 | 0 |
| 1,2-Dichloroethane | 0.505 | 0.547 | - | -8.3 | 20 | 94 | 0 |
| Trichloroethene | 0.419 | 0.459 | - | -9.5 | 20 | 97 | 0 |
| Dibromomethane | 0.193 | 0.206 | - | -6.7 | 20 | 94 | 0 |
| 1,2-Dichloropropane | 0.444 | 0.47 | - | -5.9 | 20 | 93 | 0 |
| Bromodichloromethane | 0.534 | 0.556 | - | -4.1 | 20 | 95 | 0 |
| 1,4-Dioxane | 0.00128 | 0.0015* | - | -17.2 | 20 | 99 | 0 |
| cis-1,3-Dichloropropene | 0.477 | 0.517 | - | -8.4 | 20 | 94 | 0 |
| Chlorobenzene-d5 | 1 | 1 | - | 0 | 20 | 93 | 0 |
| Toluene-d8 | 1.341 | 1.349 | - | -0.6 | 20 | 93 | 0 |
| Toluene | 0.797 | 0.832 | - | -4.4 | 20 | 96 | 0 |
| 4-Methyl-2-pentanone | 10 | 9.315 | - | 6.9 | 20 | 87 | 0 |
| Tetrachloroethene | 0.338 | 0.354 | - | -4.7 | 20 | 98 | 0 |
| trans-1,3-Dichloropropene | 0.397 | 0.4 | - | -0.8 | 20 | 94 | 0 |
| 1,1,2-Trichloroethane | 0.176 | 0.181 | - | -2.8 | 20 | 95 | 0 |
| Chlorodibromomethane | 0.272 | 0.273 | - | -0.4 | 20 | 93 | 0 |

* Value outside of QC limits.

# Continuing Calibration
# Form 7

| | | | | |
|---|---|---|---|---|
| **Client** | : Environmental Strategies & Mgmt. | **Lab Number** | : L1638614 | |
| **Project Name** | : EASTHAM LANDFILL | **Project Number** | : 2016-055 | |
| **Instrument ID** | : VOA116 | **Calibration Date** | : 12/01/16 08:27 | |
| **Lab File ID** | : V16161130A02 | **Init. Calib. Date(s)** | : 11/30/16 | 11/30/16 |
| **Sample No** | : WG957329-2 | **Init. Calib. Times** | : 07:23 | 10:17 |
| **Channel** | : | | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1,3-Dichloropropane | 0.375 | 0.388 | - | -3.5 | 20 | 95 | 0 |
| 1,2-Dibromoethane | 0.203 | 0.206 | - | -1.5 | 20 | 93 | 0 |
| 2-Hexanone | 0.111 | 0.109 | - | 1.8 | 20 | 85 | 0 |
| Chlorobenzene | 0.845 | 0.878 | - | -3.9 | 20 | 95 | 0 |
| Ethylbenzene | 1.554 | 1.622 | - | -4.4 | 20 | 96 | 0 |
| 1,1,1,2-Tetrachloroethane | 0.3 | 0.305 | - | -1.7 | 20 | 93 | 0 |
| p/m Xylene | 0.584 | 0.613 | - | -5 | 20 | 96 | 0 |
| o Xylene | 0.658 | 0.707 | - | -7.4 | 20 | 97 | 0 |
| Styrene | 0.67 | 0.702 | - | -4.8 | 20 | 99 | 0 |
| 1,4-Dichlorobenzene-d4 | 1 | 1 | - | 0 | 20 | 93 | 0 |
| Bromoform | 0.322 | 0.337 | - | -4.7 | 20 | 96 | 0 |
| Isopropylbenzene | 3.235 | 3.359 | - | -3.8 | 20 | 98 | .01 |
| 4-Bromofluorobenzene | 1.032 | 1.011 | - | 2 | 20 | 92 | 0 |
| Bromobenzene | 0.674 | 0.687 | - | -1.9 | 20 | 95 | 0 |
| n-Propylbenzene | 3.803 | 4.009 | - | -5.4 | 20 | 99 | 0 |
| 1,1,2,2-Tetrachloroethane | 0.464 | 0.478 | - | -3 | 20 | 97 | 0 |
| 2-Chlorotoluene | 2.577 | 2.661 | - | -3.3 | 20 | 97 | .01 |
| 1,3,5-Trimethylbenzene | 2.561 | 2.675 | - | -4.5 | 20 | 98 | 0 |
| 1,2,3-Trichloropropane | 0.383 | 0.402 | - | -5 | 20 | 98 | 0 |
| 4-Chlorotoluene | 2.21 | 2.276 | - | -3 | 20 | 96 | 0 |
| tert-Butylbenzene | 2.189 | 2.296 | - | -4.9 | 20 | 98 | 0 |
| 1,2,4-Trimethylbenzene | 2.517 | 2.606 | - | -3.5 | 20 | 96 | 0 |
| sec-Butylbenzene | 2.402 | 2.398 | - | 0.2 | 20 | 96 | 0 |
| p-Isopropyltoluene | 2.635 | 2.765 | - | -4.9 | 20 | 99 | 0 |
| 1,3-Dichlorobenzene | 1.332 | 1.382 | - | -3.8 | 20 | 97 | 0 |
| 1,4-Dichlorobenzene | 1.306 | 1.338 | - | -2.5 | 20 | 96 | 0 |
| n-Butylbenzene | 2.286 | 2.462 | - | -7.7 | 20 | 102 | 0 |
| 1,2-Dichlorobenzene | 1.162 | 1.181 | - | -1.6 | 20 | 93 | 0 |
| 1,2-Dibromo-3-chloropropan | 0.067 | 0.064 | - | 4.5 | 20 | 90 | 0 |
| Hexachlorobutadiene | 0.244 | 0.267 | - | -9.4 | 20 | 104 | 0 |
| 1,2,4-Trichlorobenzene | 0.67 | 0.677 | - | -1 | 20 | 95 | 0 |
| Naphthalene | 1.345 | 1.334 | - | 0.8 | 20 | 93 | 0 |
| 1,2,3-Trichlorobenzene | 0.563 | 0.57 | - | -1.2 | 20 | 97 | 0 |

* Value outside of QC limits.

# Continuing Calibration
# Form 7

| | | | | |
|---|---|---|---|---|
| Client | : Environmental Strategies & Mgmt. | Lab Number | : L1638614 | |
| Project Name | : EASTHAM LANDFILL | Project Number | : 2016-055 | |
| Instrument ID | : VOA116 | Calibration Date | : 12/02/16 10:44 | |
| Lab File ID | : V16161202A02 | Init. Calib. Date(s) | : 11/30/16 | 11/30/16 |
| Sample No | : WG957909-2 | Init. Calib. Times | : 07:23 | 10:17 |
| Channel | : | | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| Fluorobenzene | 1 | 1 | - | 0 | 20 | 76 | 0 |
| Dichlorodifluoromethane | 0.369 | 0.383 | - | -3.8 | 20 | 81 | 0 |
| Chloromethane | 0.54 | 0.547 | - | -1.3 | 20 | 77 | 0 |
| Vinyl chloride | 0.568 | 0.658 | - | -15.8 | 20 | 88 | 0 |
| Bromomethane | 0.238 | 0.302 | - | -26.9* | 20 | 104 | 0 |
| Chloroethane | 0.32 | 0.369 | - | -15.3 | 20 | 88 | 0 |
| Trichlorofluoromethane | 0.575 | 0.663 | - | -15.3 | 20 | 90 | 0 |
| Ethyl ether | 0.169 | 0.197 | - | -16.6 | 20 | 93 | 0 |
| 1,1-Dichloroethene | 0.359 | 0.356 | - | 0.8 | 20 | 77 | 0 |
| Carbon disulfide | 1.162 | 1.245 | - | -7.1 | 20 | 82 | 0 |
| Methylene chloride | 0.406 | 0.393 | - | 3.2 | 20 | 77 | 0 |
| Acetone | 10 | 11.061 | - | -10.6 | 20 | 90 | 0 |
| trans-1,2-Dichloroethene | 0.396 | 0.387 | - | 2.3 | 20 | 73 | 0 |
| Methyl tert-butyl ether | 0.833 | 0.85 | - | -2 | 20 | 77 | 0 |
| Diisopropyl ether | 1.404 | 1.419 | - | -1.1 | 20 | 76 | 0 |
| 1,1-Dichloroethane | 0.827 | 0.851 | - | -2.9 | 20 | 77 | 0 |
| Ethyl tert-butyl ether | 1.258 | 1.273 | - | -1.2 | 20 | 76 | 0 |
| cis-1,2-Dichloroethene | 0.426 | 0.423 | - | 0.7 | 20 | 76 | 0 |
| 2,2-Dichloropropane | 0.64 | 0.648 | - | -1.3 | 20 | 77 | .01 |
| Bromochloromethane | 0.173 | 0.175 | - | -1.2 | 20 | 75 | 0 |
| Chloroform | 0.707 | 0.732 | - | -3.5 | 20 | 78 | 0 |
| Carbon tetrachloride | 0.611 | 0.617 | - | -1 | 20 | 79 | 0 |
| Tetrahydrofuran | 10 | 10.314 | - | -3.1 | 20 | 71 | 0 |
| Dibromofluoromethane | 0.437 | 0.459 | - | -5 | 20 | 80 | 0 |
| 1,1,1-Trichloroethane | 0.661 | 0.658 | - | 0.5 | 20 | 77 | 0 |
| 2-Butanone | 0.097 | 0.106 | - | -9.3 | 20 | 90 | 0 |
| 1,1-Dichloropropene | 0.55 | 0.562 | - | -2.2 | 20 | 79 | .01 |
| Benzene | 1.597 | 1.615 | - | -1.1 | 20 | 76 | 0 |
| tert-Amyl methyl ether | 0.892 | 0.897 | - | -0.6 | 20 | 77 | 0 |
| 1,2-Dichloroethane-d4 | 0.5 | 0.539 | - | -7.8 | 20 | 83 | 0 |
| 1,2-Dichloroethane | 0.505 | 0.533 | - | -5.5 | 20 | 78 | .01 |
| Trichloroethene | 0.419 | 0.422 | - | -0.7 | 20 | 77 | 0 |
| Dibromomethane | 0.193 | 0.206 | - | -6.7 | 20 | 80 | 0 |
| 1,2-Dichloropropane | 0.444 | 0.452 | - | -1.8 | 20 | 77 | 0 |
| Bromodichloromethane | 0.534 | 0.538 | - | -0.7 | 20 | 78 | 0 |
| 1,4-Dioxane | 0.00128 | 0.0019* | - | -48.4* | 20 | 107 | 0 |
| cis-1,3-Dichloropropene | 0.477 | 0.487 | - | -2.1 | 20 | 75 | 0 |
| Chlorobenzene-d5 | 1 | 1 | - | 0 | 20 | 79 | 0 |
| Toluene-d8 | 1.341 | 1.344 | - | -0.2 | 20 | 79 | 0 |
| Toluene | 0.797 | 0.771 | - | 3.3 | 20 | 76 | 0 |
| 4-Methyl-2-pentanone | 10 | 9.363 | - | 6.4 | 20 | 74 | 0 |
| Tetrachloroethene | 0.338 | 0.325 | - | 3.8 | 20 | 77 | 0 |
| trans-1,3-Dichloropropene | 0.397 | 0.393 | - | 1 | 20 | 78 | 0 |
| 1,1,2-Trichloroethane | 0.176 | 0.178 | - | -1.1 | 20 | 80 | 0 |
| Chlorodibromomethane | 0.272 | 0.267 | - | 1.8 | 20 | 77 | 0 |

* Value outside of QC limits.

# Continuing Calibration
# Form 7

| | | | | |
|---|---|---|---|---|
| **Client** | : Environmental Strategies & Mgmt. | **Lab Number** | : L1638614 | |
| **Project Name** | : EASTHAM LANDFILL | **Project Number** | : 2016-055 | |
| **Instrument ID** | : VOA116 | **Calibration Date** | : 12/02/16 10:44 | |
| **Lab File ID** | : V16161202A02 | **Init. Calib. Date(s)** | : 11/30/16 | 11/30/16 |
| **Sample No** | : WG957909-2 | **Init. Calib. Times** | : 07:23 | 10:17 |
| **Channel** | : | | | |

| Compound | Ave. RRF | RRF | Min RRF | %D | Max %D | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1,3-Dichloropropane | 0.375 | 0.378 | - | -0.8 | 20 | 78 | 0 |
| 1,2-Dibromoethane | 0.203 | 0.206 | - | -1.5 | 20 | 79 | 0 |
| 2-Hexanone | 0.111 | 0.108 | - | 2.7 | 20 | 72 | 0 |
| Chlorobenzene | 0.845 | 0.839 | - | 0.7 | 20 | 77 | 0 |
| Ethylbenzene | 1.554 | 1.527 | - | 1.7 | 20 | 77 | 0 |
| 1,1,1,2-Tetrachloroethane | 0.3 | 0.296 | - | 1.3 | 20 | 77 | 0 |
| p/m Xylene | 0.584 | 0.573 | - | 1.9 | 20 | 76 | 0 |
| o Xylene | 0.658 | 0.66 | - | -0.3 | 20 | 77 | 0 |
| Styrene | 0.67 | 0.677 | - | -1 | 20 | 81 | 0 |
| 1,4-Dichlorobenzene-d4 | 1 | 1 | - | 0 | 20 | 81 | 0 |
| Bromoform | 0.322 | 0.33 | - | -2.5 | 20 | 81 | 0 |
| Isopropylbenzene | 3.235 | 3.061 | - | 5.4 | 20 | 77 | .01 |
| 4-Bromofluorobenzene | 1.032 | 0.997 | - | 3.4 | 20 | 78 | 0 |
| Bromobenzene | 0.674 | 0.646 | - | 4.2 | 20 | 77 | 0 |
| n-Propylbenzene | 3.803 | 3.683 | - | 3.2 | 20 | 79 | 0 |
| 1,1,2,2-Tetrachloroethane | 0.464 | 0.473 | - | -1.9 | 20 | 83 | 0 |
| 2-Chlorotoluene | 2.577 | 2.442 | - | 5.2 | 20 | 77 | .01 |
| 1,3,5-Trimethylbenzene | 2.561 | 2.475 | - | 3.4 | 20 | 78 | 0 |
| 1,2,3-Trichloropropane | 0.383 | 0.398 | - | -3.9 | 20 | 84 | 0 |
| 4-Chlorotoluene | 2.21 | 2.142 | - | 3.1 | 20 | 78 | 0 |
| tert-Butylbenzene | 2.189 | 2.074 | - | 5.3 | 20 | 76 | 0 |
| 1,2,4-Trimethylbenzene | 2.517 | 2.413 | - | 4.1 | 20 | 77 | 0 |
| sec-Butylbenzene | 2.402 | 2.252 | - | 6.2 | 20 | 78 | 0 |
| p-Isopropyltoluene | 2.635 | 2.515 | - | 4.6 | 20 | 78 | 0 |
| 1,3-Dichlorobenzene | 1.332 | 1.298 | - | 2.6 | 20 | 79 | 0 |
| 1,4-Dichlorobenzene | 1.306 | 1.281 | - | 1.9 | 20 | 79 | 0 |
| n-Butylbenzene | 2.286 | 2.294 | - | -0.3 | 20 | 82 | 0 |
| 1,2-Dichlorobenzene | 1.162 | 1.142 | - | 1.7 | 20 | 78 | 0 |
| 1,2-Dibromo-3-chloropropan | 0.067 | 0.061 | - | 9 | 20 | 75 | 0 |
| Hexachlorobutadiene | 0.244 | 0.238 | - | 2.5 | 20 | 81 | 0 |
| 1,2,4-Trichlorobenzene | 0.67 | 0.637 | - | 4.9 | 20 | 78 | 0 |
| Naphthalene | 1.345 | 1.31 | - | 2.6 | 20 | 79 | 0 |
| 1,2,3-Trichlorobenzene | 0.563 | 0.535 | - | 5 | 20 | 79 | 0 |

* Value outside of QC limits.

# 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: James McGrath & Lori Bivolcic

2. Street Address: 45 Salt Pond 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: 55 Salt Pond Rd

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

# 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: Mr. Peter Rimkus

2. Street Address: 16 Flanders Woods Lane

City/Town: Coventry, CT Zip Code: 06238

**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: 14 Wood Duck Lane

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

# 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: Mr. and Mrs. Lucas

2. Street Address: 19 Overbrook Road

City/Town: Norwalk, CT Zip Code: 06851

**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: 10 Split Rail Road

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

# 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: Mr. and Mrs. Lipsky

2. Street Address: 235 Main Street Apt. 4E

City/Town: White Plains, NY Zip Code: 10601

**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: 35 Salt Pond Road

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

# 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: Mr. and Mrs. Butz

2. Street Address: 122 Upper Saddle River Road

City/Town: Montvale, NJ Zip Code: 07645

**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 Salt Pond Road

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

# 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: Mr. and Mrs. Murzyn

2. Street Address: 230 Locust Road

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: 230 Locust Road

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

# 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: Mr. and Mrs. Burke

2. Street Address: 100 Kingsbury Beach Road

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: 100 Kingsbury Beach Road

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

# 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: Mr. and Mrs. Verfaillie

2. Street Address: 80 Kingsbury Beach Road

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: 80 Kingsbury Beach Road

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

# 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: Eastham, MA 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 Ave

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

# 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: Kenneth Tarabelli

2. Street Address: 74 Winthrop Avenue

City/Town: Quincy Zip Code: 02170

**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: 60 Armour Drive

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

# 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: Gabrielle Reine

2. Street Address: 257 Old Mill Road

City/Town: Shrewsbury, MA Zip Code: 01545

**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: 80 Armour Drive

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

# 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: Peter & Jeanne Leather

2. Street Address: PO Box 645

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: 130 Locust Road

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

# 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: Robert & Patricia Lebranche

2. Street Address: PO Box 897

City/Town: No. Eastham, MA 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: 180 Locust Road

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

# 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, 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: 4 Preservation Way

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

# 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: Joanne Bruckman

2. Street Address: 516 Burlington Street

City/Town: Paramus, NJ Zip Code: 07652

**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: 15 Split Rail Road

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

# 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: Mary Rappaport

2. Street Address: 20 Split Rail Road

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: 20 Split Rail Road

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

# 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: Gail O'Keefe-Edson

2. Street Address: 25 Split Rail Road

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: 25 Split Rail Road

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

# 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: Brian & Linda Libby

2. Street Address: 30 Split Rail Road

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: 30 Split Rail Road

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

# 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: Nathan Nickerson III

2. Street Address: PO Box 1568

City/Town: No. Eastham, MA 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: 3580 State Highway

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

# 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: Roger Patskanick

2. Street Address: 10 Wood Duck Lane

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: 10 Wood Duck Lane

City/Town: EASTHAM MA Zip Code: 02642

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

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

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

☑ residential ☐ commerical ☐ 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.

ENVIRONMENTAL & ENGINEERING SOLUTIONS

December 30, 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 -4th Quarter 2016
Town of Eastham Landfill
255 Old Orchard Road, Eastham MA
RTN 4-24301

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 September 1, 2016, and November 30, 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

**BARNSTABLE COUNTY**
**DEPARTMENT OF HEALTH AND ENVIRONMENT**
BARNSTABLE OLD COUNTY JAIL
3195 MAIN STREET P.O. BOX 427
BARNSTABLE, MASSACHUSETTS 02630

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

December 7, 2016

Lisa Flynn
Environmental Strategies & Mgt. Inc.
273 West Main Street
Norton, MA 02766

**Re: Soil/Gas results for Eastham Landfill**

Dear Ms. Flynn:

Please find the enclosed results from samples dated November 28, 2016 for the soil/gas monitoring wells at the Eastham Landfill site.

The average barometric pressure the day of sampling was 30.05 in Hg, the weather was sunny and breezy with a temperature of 38 °F.

During this round of sampling none of the wells exceeded the 25% Lower Explosive Limits (LEL) for methane. Please find the enclosed table for individual well results sampled for the following parameters: Oxygen ($O_2$), Methane ($CH_4$ (% gas and % LEL)), Hydrogen Sulfide ($H_2S$) and Volatile Organic Compounds (VOC).

The instruments used to collect the data were a MiniRAE Lite Photo-Ionization Detector (PID) meter and a Gem 5000 Multi-Gas meter. The next round of bi-annual sampling is scheduled for May. Should you have any questions or concerns, please feel free to contact me at (508) 375-6620 or Lynn K. Mulkeen at (508) 375-6676.

Sincerely,

Erika A. Woods, RS
Senior Environmental Specialist
Barnstable County Department of Health and Environment

C: Mark Dakers, MassDEP
Jane Crowley, Eastham HD

# Eastham Landfill Gas

Date: November 28, 2016
Sampled By: Lynn Mulkeen, RS
Weather: sunny; breezy 38°F
Barometric Pressure: 30.05

| Device ID | Date/Time | % CH4 | | % LEL | | % O2 | | $H_2S$ (ppm) | | VOC (ppm) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | initial | purged | initial | purged | initial | purged | initial | purged | initial | purged |
| EASGMW-2 | 11/28/2016 0:00 | 0.0 | 0.0 | 0.0 | 0.0 | 21.5 | 19.5 | 0.0 | 0.0 | 0.0 | 0.1 |
| EASGMW2A | 11/28/2016 0:00 | 0.0 | 0.0 | 0.0 | 0.0 | 21.5 | 20.3 | 0.0 | 0.0 | 0.0 | 0.1 |
| EASGMW2B | 11/28/2016 0:00 | 0.0 | 0.0 | 0.0 | 0.0 | 21.6 | 19.7 | 0.0 | 0.0 | 0.1 | 0.1 |
| EASGMW-3 | 11/28/2016 0:00 | 0.0 | 0.0 | 0.0 | 0.0 | 21.7 | 21.8 | 0.0 | 0.0 | 0.1 | 0.1 |
| EASGMW-4 | 11/28/2016 0:00 | 0.0 | 0.0 | 0.0 | 0.0 | 21.8 | 20.4 | 0.0 | 0.0 | 0.1 | 0.1 |
| EASGMW-1 | 11/28/2016 0:00 | 0.0 | 0.0 | 0.0 | 0.0 | 21.6 | 21.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | | | | |
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